

<223> Clone ID: jC-gmf102220067h06a1

<400> 4710

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atggctctct catccccatc cttggctggc aaggccgtga agctgggccc atcagcccca 120
gaagtgggaa gggtgagcat gaggaagacc gtcaccaagc aggtctcctc aagaagccca 180
tggtacggcc cagaccgagt caagtacttg ggcccattct ctggcgagcc cccgtcctac 240
ctaaccggtg agttcccagg cgactacggc tgggacactg ctgggctttc cgagaccca 300
gaaaccttcg ccaagaaccg tgaactcgaa gtgatccact ccaggtgggc catgctcgga 360
gccttgggct gcgtcttccc ggagttgctg acccgcaacg gggatgaagt cggagaagcc 420
gcgtggttca aggccgggtc ccagatcttc agcgagggtg ggctcgacta cttgggcaac 480
ccaagcctga tccacgc 497

<210> 4711

<211> 239

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220067h07a1

<400> 4711

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aagaggttgg agatcagagt gttgtacacc agatccaatt gccttcacag gatgcgctcc 120
cggaggatta ctctctacaa tgggtaccaca aaagagatgg ttactggcc aactgtaat 180
cttttttggg aagcattctc ctcttatgtg catgctcttt ggtaaaatcc agttcagag 239

<210> 4712

<211> 602

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220067h08a1

<400> 4712

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agtcattcatg ggtaaggaaa agactcacat caacattgtc gtcattggac atgtcgactc 120

tgggaagtca actaccactg gtcatttgat ctacaagctt ggaggtattg acaagcgtgt 180
 gattgagagg ttcgagaagg aggctgctga gatgaacaag aggtcattca agtatgcctg 240
 ggtgcttgac aagctcaagg ctgagcgcgga aagaggaatt accattgata ttgctttgtg 300
 gaagtttgaa accaccaagt actactgcac agtcatcgat gcccccgga atcgtgactn 360
 tatcaagaac atgattactg gtaccttcca ggcttattgt gctgtcctta tcattgactc 420
 caccactggt gggtttgaag ctgggtatttc tacagatgga cagactcgtg agcatgctct 480
 tcttgctttc acccttggtg tgaagcagat gatctgctgc tgtaacaaga tggatgccac 540
 taccccaag tactctaagg ctaggtatga tgaaattgtg aaagaagtct ctttctactt 600
 ga 602

<210> 4713
 <211> 617
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067h09a1
 <400> 4713

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 aggctcacag actgaaaaat gatcagacga taacaaaccg ggcgtttgca ggggagagct 120
 gccaatgccc gggttggttat cgtctgctaa cgttgaattt tgttgagga acttccttgc 180
 acaatgactt agaagaattc tgtgcaatgg ttaactttac taatcctgga atattgggtg 240
 atattgcaca ttttcgacgt tactatgagg caccaattat ttgtggaaga gaacctgctg 300
 ccactgcgga agagaagaag ctaggtgctg aacagtctgc tgaattaagt gtcaatgtta 360
 accggttcat attaagaagg actaatgcat tggttatcaa tcacttacca cctaagatag 420
 ttgaagttgt ttgctgcaag ttgactccac tgcagtcaga actatataaa cattttatac 480
 aatccatata tggttaagcgg gcaattactg tagaactgaa gcaatcaaag attttggctc 540
 acataacagc tctcaaaagt tgtgcaatca ttccaagctt attctttgat accatacgaa 600
 gtgggagtcc aggaact 617

<210> 4714
 <211> 348

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067h10a1
 <400> 4714
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 aagaagaaac agacactttt aaaagggggc tgctgtttca tattcacctc gcgtagaact 120
 agaacctgtg ctgtacactg ttttcacttg ctttgccttc tgtcttattt tagtataaaa 180
 gcgtctatct gctatcagcc atatcacgga tctcttcctc cgttcctggt ggctgtcact 240
 cccaactata tttatcatat cacttcctca ttatatgacg atcatcaaag cctttgcttt 300
 atcaacgagt tatatgcatt ctatgctcag ataaaataga acaacaaa 348

<210> 4715
 <211> 554
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220067h11a1
 <400> 4715
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 atggccactt gtgttgatgc ctcaaccctt ctttctcgga aacctaacgg gtcccaatcc 120
 gatgatcatt cctttaatta catgaaattc tgccgacctt ctttctctga tcgcgttccc 180
 tgcattgcca tttgcaagaa tcgcgacacc gccttcacac gtgtggagga gtttgacaca 240
 cgtgtggaga atcatgttga ggttgacgtt gtagaggggtg ttgatctttg gttgaagatt 300
 caagaggaag caagggttaga tggtgatcaa gaaccaatct tatccagcta ctatttcagt 360
 tccattttgt ctcaaaaatc cttggagagt gccttgcca accacctctc cacaaatttg 420
 agcagcttga gccttccaag cagcaccctt tatgaccttt tcatgggtgt ttttgccgat 480
 gataatgaca tcataggtgc tgtcaaagat gatttgatag ctgttaagga gagggaccct 540
 gcttgcataa gtat 554

<210> 4716
 <211> 130
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220067h12a1

<400> 4716

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atggacactg gcgtggatgc ctcagcacca ctctgtagga aacctaacgg gtcccaatcc 120
gatcatcatt 130

<210> 4717

<211> 513

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068a01a1

<400> 4717

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tctttccgat tcccgcgaa tcctacactc tcggcttcat cggcgccgga aaaatggccg 120
agtccattgc ccgagggccc gtccgctccg gcgtcctgcc gccttctcgc attcggaccg 180
ccgtccactt caacctcgcc cgccgtggcg ccttcgagtc cttcggcgtc accgttctcc 240
cttcaaacga cgacgtcggt cgcgaaagcg acgtcgtcgt tttgtcggtc aaacctcaat 300
tagtgaaaga cgtggtgtcg aaattgacgc cgcttttgac gaagaacaag cttttggttt 360
cggtcgctgc tggtagcaaa ttgaaagatc ttcaggaatg ggctgggaac gacagattta 420
taagagtgat gcctaatacc ccagcagctg gtggccaggc agcatttgta atgaagctgg 480
ggggatctgc aacggaagaa gatgaaatat tat 513

<210> 4718

<211> 314

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068a01d1

<400> 4718

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caagttctca tatagactcg gatgcattca tgatgctagc tcgaaaagac tggtatggcc 120
aaacattctt gtttactcct ctcaaagaag agccccaagt tctcataata gtgactgaaa 180

attcgaccga aatcagattt tgggtctaaaa aaaaaagtag aatcctaatac tcttgattca 240
 ggaaagctct cgggtgcgct tagcagcagc aacaacagca ttcacagtg ttccacggaa 300
 cccaccattt tcta 314

<210> 4719
 <211> 430
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068a02a1

<400> 4719

aatccttggtg caccgtaagg gttgtgaagc aggacagagaa gagccatggt gcacgtttcc 60
 ttctaccgaa actatgggaa aaccttcaag aagcctcgtc gtccgtacga gaaggagcgt 120
 ttggacgccg agttgaagct ggtcgggtgag tacggacttc gctgcaagag ggagttgtgg 180
 agggttcagt acgctctcag cgcacatccgt aacaacgcca gaaatctttt gaccctcgac 240
 gagaagaacc cgcgccttat cttcgaggga gaagcccttc tccgaagaat gttccgttac 300
 ggacttctcg atgagactca gaacaagctt gattacgtgt tggctctcac cgtcgagaac 360
 tttctcgaac gccgcctcca aaccctttgt ttttaagtctg gcatggccaa gtccatccac 420
 cacgccagag 430

<210> 4720
 <211> 457
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068a02d1

<400> 4720

gcaagaatac cattgatcac cacaggcatt ggaacaaaac ttgaatagtt tagaaagaac 60
 agttcaaaac catgatatct caggcacagc ttacctcaa aacaagaaac aaggatggca 120
 aaattataac aagtcagacc atttcaaaaa tctaaaatgt ctaccaaacac agataatata 180
 aaaaaataa caaccgcaag gcctaaatat cagtagccat taataattta atcttcgtcc 240
 tctcatctc catctccacc agcagccttc ttagcagcag ccctttgggtt ctttctcttc 300
 acacgtcctg gacgaccacc accaagtgga ctgggtcagtg agaagtcaat gtgcttctgc 360

gaatcaaccc taaccatgaa tgatgggatg ttcaccacct gtctcccaac cctgatgtgc 420
ctctgcctga tgaggactct ggcgtggtgg atggact 457

<210> 4721
<211> 368
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068a03a1

<400> 4721

ctgatacaat cgaccggatc atggaacgcg ttgaagaaaa ggagggaatt ccacctgggc 60
cgcagagact tatatatgca ggtaaacagc ttgctgatga ccaaacaggt taagagtaca 120
acattggggg tggctctgta ctttacttgg tgcttgcatg gggggggggg acttaatagt 180
ggagatgcca tatcagaacc caaaggcctg gaaggagct ttatttctgg cccggctttt 240
ttgaagacat aatggttctt taatgggctg ggtttttgta attgtggcta ctattggtg 300
tcaggaactc agtatctttt tagtggtatg ctatttaaaa ccctaagggtg gcctttataa 360
tgaatttc 368

<210> 4722
<211> 314
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068a03d1

<400> 4722

gacactggta aaaaagtttg acgggcaacc cttcgtgctc ccttgacagg caaagaaaag 60
cagattatga ccctaaacca aggctataaa tgaatggtgc accatatcca ttgttaacgc 120
ccacttaggg tactaaataa gatacaacta cataggtacc gaattactgc cccccagggtg 180
tttccacatt taccaaaacc aggcctgctc atgaaccatg atggattcct agatacgggtg 240
caggaatgaa ggttccttgt aagcctcagg gttccgatat ggcctactca ctagttagtg 300
ccaccccttg atgc 314

<210> 4723
<211> 346

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068a04a1

<400> 4723

cactgaggac aagagaagtc cattcactca gcaatccaat attaggaatg atgagtacta 60
tggaagaaaa gtggcagggtt ccaacaagga cccttttgtg gaatctgagg tagctgttag 120
tgatgatgtg atggaaccaa gcttgacaaa gtatgtgaca gtgaaaagag gtggtggtgt 180
agtagtagaa gacatggagg accaagagtc ttcaggaagc aacagcttca ctgtgagtag 240
tatcagtggc caacattact gggggaacaa cattttttgt tcttcatcat gggaacaaaa 300
ttcttgtgac tccaccgatt ggctggactt tttcaaaatt gagctt 346

<210> 4724
<211> 537
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220068a04d1

<400> 4724

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aacttgaatt ggccttgctg aaacaagaaa cagttgcaag tactcaactc caaacagaag 120
aactgtcaac acctcattga acatctaaca tacatcagca aaagggtgaaa attcatggta 180
tcatgatatc atcatcatca tcacacacac acccctttat tggaaccaag cctgccacgt 240
acaatgccac cgctatgttc atgatcacac tctctccttc tgctgttcaa acccttgttc 300
ttcttcttgg cttcagatga caaactacat cccaatccta aggggtgttt ctgagcctac 360
tcctctctgg agtcaatct tgaagaagtc cagcaatcgg tggagtcagc agaatttggc 420
tcccatgatg aagaacatga catgctgttg cccagtgat gttggccact gctactactc 480
acagtgaagc tgttgcttcc tgaagactct aggcctnca tggcttctac tactaca 537

<210> 4725
<211> 590
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068a05a1

<400> 4725

ctgcttcctc gtagtacttc attgagagag acatggacac tgtactaagt actacgctgc 60
tactcatggt ggcattgctc atcgtgcatg ttcttcgttc actacaagca agaattgagaa 120
gaaaatcaaa ctacaattct ccaccaggac cctctcttct caccatcatt agaaactcta 180
aacaactcta taaaaagcca cagcagacaa tggccaagct tgccaaaacc tatggcccca 240
taatgcgttt caccataggg caatcaacca ccatagtaat ctctcaata gaagccaccc 300
aagaggttct ccaaaccat gactcattat tctcggacag acaaaccac gacatcaca 360
cctcgtacaa ccacaaccgt tacagcttgg tttttctccc tgtctcacc ctctggcaag 420
aactaagaaa aatctgccac ggaaacttgt tttcggcaaa gacccttgac gcatgcacgg 480
accttaagcg catgaaaatg aaagagcttc ttaccgatat ccgccaaga agcctcaacg 540
gcgaagtggg ggacattgga agagcagccc ttatggcatg cattaacttt 590

<210> 4726

<211> 466

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068a05d1

<400> 4726

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aagaaagaca ggaagaccct gttggactaa taggttggtt aaaggaaact gtattcacac 120
tcccataggt aggttcatcc taatgggaac aacgacaaa ttttaaggtg cactaactga 180
gccttttagct ataacttttt ttaccaatgc ttgaaggcag aggctgagat ctcaaatgat 240
cagtgcccaa gtcgatgcac ctagacaagt caagccccct ttgggagaaa caaccgtgga 300
actaaagttg cataaagtac aaagggaaca acgagaaaaa tggatcatcat tagagcgagt 360
gttacaagaa cggaacaggc atatcgtacg tgcaaggagc tttgaaactg cctatggcta 420
tggcataaac ctatgcgccc aaaacgggga ttaacatatg aactac 466

<210> 4727

<211> 571

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220068a06a1

<400> 4727

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tgaaaacaac ttccccctc agaagcaaga cactcagcct ggcaaagagt acctcatgaa 120
tccaccaccc caatacaaca gctcccaata caagccatca aataaacttc agggaaagat 180
agctgtagta accgggggtg attctggaat tggacgagcc gtgtgcaact tgttttcatt 240
agaaggtgct actgtgatct tcacctacgt gaaggggcaa gaggacaggg acgcgagtga 300
cacgcttgag attataaaaa aagctaagac tgaagatgct aaagatccat tggctatacc 360
tgttgacgtg ggttatgaag agaattgcaa gaaagtgggtg gacgaggtta tcaacgctta 420
tggccgcatt gacattctgg tcaacaatgc agctgagcag tacgagagtg attcccttga 480
agatattgat gatgcaagac tcgagagggt ctcagaact aatatatttt cccatttctt 540
catgaacaaa catgctcttg agcacatgaa g 571

<210> 4728

<211> 411

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220068a06d1

<400> 4728

ggctcatata aaagaccgtc atgtaaaaga ttagacctgg cgtatcatct taacagcatt 60
atccaggaag ctcaactcatg gggcgagtct acctatgac aaggtagcat cgcttgcaaa 120
ggctaggccc ttacacatga cttttcagct ggcataatgc ggaatctcag actctgctgc 180
tacataaaga gcgcttctca gtgtgggctt ctttcctact actacattct actactatcc 240
acttacacag aactgcttc agactaggac ggctcctgat ttgatcccag tcatgcccac 300
gaatgcgaga ctcatgctga tagctggatg ggacttactc ttacactgt agagcattct 360
atctacggac agatcctacc cctggagggg attgtgacag ccatctgcta g 411

<210> 4729

<211> 511

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068a07a1

<400> 4729

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atgactggag actatactcc tgatttgacg gctctcttgt cggccaatat catcatatct 120
actcctgaaa agtgggatgg aataagtcgt aattggcata gccgtagcta tgtcacaaaag 180
gttggactta tgatattgga tgagattcac ttattggggg ctgatcgtgg acccattctt 240
gaggttattg tttctaggat gagatacata tcatcccaa cagaacgtgc agtacggttt 300
gtaggtcttt ctacagctct ggctaatact ggtgatctag ctgattgggt aggcgttgag 360
gaaattggac tcttcaattt caagccaagt gtgaggcctg taccctgga agttcatatt 420
cagggttatc ctggaaaata ttactgccca aggatgaata gcatgaataa accagcatat 480
gcttgcatat gcacacattc acctgcaaaa c 511

<210> 4730

<211> 537

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068a07d1

<400> 4730

gcttgccgag atccattcct tcacaattta taaatgttca gacatctttc aatccttgca 60
ctgtaaacct ttatacttac aaatggcgac acgacttgga aaataaataa agaaaatcta 120
aaaacaagat cattatgatt acctataaaa caattaaatg caagagattg caaatcctat 180
ggatatacat attgactttt tctcaagtta aaaaaaaaac attttttggg acaacctggg 240
cagccccaac cctcttcaag aaatcttacg tttacgttgt atgtacaatg gcaactgacca 300
atgggtgtctc cactacttaa catacatcaa gttcttcaat ggagtgttct tgttcaaatac 360
caatgtaaca atcggagact aaaatcagtt ttacgccttg aagattagct ggagtcagag 420
gcaacttcat tgaggtaact aagtgatctg aaacagaaac tcttttcaaa gcatatagct 480
cagacgtaga ggtattacca agaaccaacc accattgttc cctctttatc tittgaa 537

<210> 4731

<211> 485
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068a08a1

<400> 4731

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ttggatatta gagtgtgtaa gaaagagaag agagagaaat gggaagggga agagtggagt 120
tgaagagaat tgagaacaag atcaacaggc aagtgcctt tgcaaaacga aggaacgggc 180
ttttgaagaa agcttacgag ctttccgttc tttgtgatgc cgagggtgct ctcacatct 240
tctccaatag aggaaaactg tacgagttct gcagcagttc aagcatgctc aaaacgctag 300
agaggtacca gaaatgtaac tatggtgcgc ctgaggctaa tgtgtctaca cggaagcct 360
tggagttaag cagtcaacag gagtacttga agctgaaggc acgttatgag gccctacaac 420
gggtcccagag gaaccttatg ggagaagatc ttggtcctta agcagcaaag agctcgagtc 480
tcttg 485

<210> 4732
<211> 451
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068a08d1

<400> 4732

ggatgaaaaa ataggtgaac gtttataatt cgattatcaa tactcttatg aatagggaag 60
aaacagcctc cgaagcatac atgtgcacat gaatgcaaga gctagtacgc acagacaaca 120
ctgcttaact ttgttcctac tctatactcg ggagacactt acagcttcat tacatccagg 180
gccattatct tgcttctaact tcttgctgct gcaaataaca ttggaacggc taatgtgctg 240
ttgcagagga tcttatgcag gaaacgcaga ctatcgtaac catactgcca tgacattgct 300
catgcttgac cctgctgaca cactgatac tgcatcaggc tgatacccaa tgatgtaacg 360
acggctgaca ctgcattcgc tgaaagaggt cttcaccag agttagagct ggatgcctga 420
catattccat cgcttgaact tcggcattca g 451

<210> 4733

<211> 601
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220068a09a1

<400> 4733

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aagttgcaaa gcaaagaata gaagacgaag ggtatagagc tcataacaat ccatttggtc 120
ttaatttggt tctgttttct tcattctgtc agccatatat ggcttccttg gcgacgggtc 180
aagatgaacg ttgcgttcag agaagctact ggattgaaca taccacagat ttgtccgtag 240
agtcaatgat gtcgattcc aacgcctctg atctcgacaa ggaagaaaga cccgaagttt 300
tgtccctact accagcatat gaaggaaaat cagttgtaga acttgaggca ggtattggaa 360
gattcacagg tgaattggcc aagaaagctg gccagttgct tgctgtggat ttcattgaga 420
gtgctataaa gaagaatgaa agcattaatg gacaccacaa gaatgtcaag ttcattgtgtg 480
ctgatgtcac ttctncaact tgcataattc tgaagatcag ttgatctgat ngctctcaat 540
ggttactcat gtatctttca gataaagagg ttgagaattt agctgncagg atgatcaaat 600
g 601

<210> 4734
<211> 463
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068a09d1

<400> 4734

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tttgtggata tggaaaattt gttgatcaca ggatgatagg ggtgttcaga gtgttcgaag 120
agggggcccc caatatcata aggatattct actatatgag agagcagggtg gaaagggttt 180
ggagcacagg aggactagaa caaccaagga aataagagaa aaaaaaggga caaaaacctg 240
gccagaaagt actggatgaa gaacgtggaa ctggggggagg agacatgtac atggcagaaa 300
attttgaaga agaagatggt ggcatcgacc gctacataaa cataatttct gttgccattg 360
aacgcgccat tggactcaga tgctgcgcag aatttgagtg tgccgattgc actaaccgaa 420

caagggtgt gaaaacataa gatgtaatgt aggggcggga cac

463

<210> 4735
<211> 613
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068a10a1

<400> 4735

cttcgttatg tcgcgacaga gatccagaag agtcgaacta cctcccgtc aggagaatat 60
tgaaaaattg gagaagggtg taaacgatgg aaattattat ggagctcagc aaatgtacaa 120
atccgttagt gccagatatg tttctgctca gaggtactgt gaagcattag atatcctaca 180
ttcaggagcg tgcattcaat tgtctcatgg gcaggttacc tgtggagcag agctagctct 240
attgtttgtg gagacattag ggaaagggaa aattccttac aatgaggaaa ttcttgaacg 300
tctcgacaaa atttacaat catttctctg ggtttcattg ccacaaaacc tatgggatgt 360
cgatgacatg cagcagcttt ctgaaaacat tggaagtga aagacacgtg ttgagggtg 420
ctcctcattc ttaaaagctg ctatcaagt gtctgccgga aatggagtaa ataagaatgg 480
atctccagag ctgcacatca tgctagctga gtacatattt tctgaaagtc ctgagggtgga 540
tatggctaaa gtgacacatc attttgtgag aggaaataat ccaaagaagt tgcttctact 600
ctaggagttt ttg 613

<210> 4736
<211> 450
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068a10d1

<400> 4736

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ctctatcatt aacaaaaaag aaaagaaaaa ttatttgaac gttctgttga agttgtggt 120
ctatctggta gtgtctccat aatgattggc attactcagc tcccatcaac ttggatatat 180
ctccaaacat tcccatgggg gtccttcgct gtactccaaa gaacctttcc ggaatatcat 240
ctagcatctt attgaacgca ggctccctgt caatacttgg cttaaaattt gctctcaaca 300

tactaaaaag aggcaaagca tctttttcca acgtttgcaa aagatatgcg ataaattgca 360
tcaactctgt cttaggaaat gcaaccttag cccgattcag ttgcttcttt atctcttcca 420
ttaggatggt cgcacctttc aaattacctg 450

<210> 4737
<211> 356
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068a11a1

<400> 4737

ttcctctttg acatgcttgc ttttggatgat ttttgggatt gtgcttctca tcgtgatcat 60
agttcttctgt gcttagtcaa agattgtctc aattccatta tggagcaaat gcatatatac 120
agggaagcag atagcatctc ccttgctgat gatgtcactt gattggtggt ttgccggggtc 180
tggtggttga ctggagtttg ttgcatctga tttcagttca tgatgtggga attcccataa 240
ttttgttctg ttggttttatg tgctctctat gttagtgttt ggggttttaa aatgtgtcac 300
ggattatggt gtaagttctc tccatgtttc ttttaattaaa aagtatttaa ttcttt 356

<210> 4738
<211> 357
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068a11d1

<400> 4738

aaagaattaa gatacttttt aattaaagaa acatggatag aacttacacc ataattggtg 60
acacatttta aaaccccaaa cactaacata gggagctcat tagactacac ggcaaaatta 120
tggaattcc cacatcttga acggaaattg aatgcggcaa actccaggga accaccaaac 180
ccggctaaac acctgtcaag tgacatcatc agcgaggag atgctatttg cttacctgga 240
tatatgcatt tgctccataa tggaattgag acaatctttg actaagcagc cagaactatg 300
gtcacgatga gaagcacaat cccaaaaatc gccagaagct agcatgtcaa agaggaa 357

<210> 4739
<211> 340

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068a12a1

<400> 4739

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gaggacatct ctaccacaaa aatcgatccat cacgcagggc aacctggaag agaaacaata 120
ccctctccct tcgtcgctac cggtgatttt gttgcagtta tcgtatgttg cttcattttc 180
tgagtatttg gagggaaaac gtcagttttg gatccctgaa tcatgccttt tttccccgat 240
aatgtcttta gtactaaaac agcagagatt aatgatgtaa gctttctact atgtgccggg 300
attgttttta tttattttgt tcgacttttt tcgttgtggc 340

<210> 4740
<211> 330
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068a12d1

<400> 4740

gccacaacga aaaaagtcga acaaaataaa taaaaacaat cccggcacat agtaaaaaac 60
ttacatcatt aatctctgct ggttttagtac taaagacatt atcggggaaa aaaggcatga 120
ttcagggatc caaaactgac gattttcctc caaatactca gaaaatgaag caacatacga 180
taactgcaac aaaatcaacg gtagcgacga agggagaggg tattggttct cttccaggtt 240
gccctgcgtg atggacgatt tttggggtag agatgtcctt tgccacgtaa acccctattg 300
gttttcccag cagaagtga ggcacgcctt 330

<210> 4741
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b01a1

<400> 4741

ggaaaacaaa ccagaggaac ccatggcaaa ggagaaaaac ccagaggaag aagcaaccga 60
agagaaaaaa ccggagcaag agtccaaaga ggaagttgct gctgctgctg ctgctccgcc 120

accgccaccg acaccgtcac cgtccgagat tgtgctcaaa gtgttcacgc attgcgaggg 180
 ttgcgcccgc aagggttcgtc gctccctcaa aggattccca ggtgtcgacg atgttgtcac 240
 cgattgcaaa tctcacaagg tggtcgttaa gggagagaaa gcggatccgc tcaaggtttt 300
 ggagagaata cagaggaaga gtcacagaca ggtcgagctt ctttctccga tcccgaacc 360
 tcaagaggag aagaaggtcc aagaggaaga gaagcccacg cccaaccccg aagagaagaa 420
 agaagagcct cagattgtga cggttctgaa agttcacatg cattgcgaag c 471

<210> 4742
 <211> 354
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068b01d1

<400> 4742

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 ttttggccca tcagggggcc cctcccaaa gtactattga ggctgggggtt tttaaagggg 120
 caaccgttat tgtgcttaaa gacgggcca aaaagtgttc ccaatttttg ttgcttttgc 180
 ataccttggc ctttaaccgt cgggggtacc gcggaatggg cctcatgttt tttccccccc 240
 caagcttcaa aatttttccc caatgcccat atatccggg gcccttagt tttgacctca 300
 tgacaatgct ggcatttggg tgcttacagt tgaccatttg ggggggggtt gaatt 354

<210> 4743
 <211> 364
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068b02a1

<400> 4743

agaaaaggat gatcgtgtcg ttatcaaaga tccaaccct aacttgtttt ttgctagtca 60
 ggtaattaat aatgcttgtg ctaccaagc gatcttgtcc attcttatga attcaccaga 120
 tattgatatt ggtccagagc tgacgaaatt gaaagaattt accaagaatt tccctcctga 180
 gctcaaaggt ttagccatca ataacagtga ggccatacgt acagcccata atagctttgc 240
 caggccagaa ccttttgttc ctgaagagca aaagggttgc agcaaaaatg atgatgttta 300

ccatttcata agctatctac ctgttgatgg ggtactatat gagcttgatg gattaaagga 360
gggt 364

<210> 4744
<211> 398
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b02d1

<400> 4744

attaaagaat tcattcatta acagattaca tacgggctcc aaatcttaca ccaaggaatc 60
tgatgaatat tttgccctga atatagagtc ttacagggcc ggtggcatca aatgctggac 120
taatatcgct taccacactg catagtaaca ctgcttgaaa tcgaccacga acctgatgac 180
gtaccagat gactagggat attaattctt gatcagtgat ctaatacact ctttactttc 240
aactgtgtg aaccatgcga gaggaagtgc ttgaactgct aaaaaggcca tatgctgtgc 300
agcacattta ttatgtatta ctgtaatgat gcccttcga gaagactcag acttttagcc 360
agactacatt gactggcact tttattcatc ctatcgat 398

<210> 4745
<211> 91
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b03a1

<400> 4745

gtcacgtgtg gttgtacgat atttattgcc aaaaccgttt ccattttggc acaagggtta 60
aaagataaag gcgactatgg tggttatgca c 91

<210> 4746
<211> 409
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b03d1

<400> 4746

gagtaagtaa caatgacatg taacaaagat ggcacaataa cacagatatt cccatagaga 60

ttattcttct acagattctc atccacacta aacaaacggt cttatctggg gaatcggcta 120
 ctagaagacc aaccgaacga tgctaacatt ggaagagccc aagcgcgag cgcttttgaa 180
 aattttgagg actgagatcc aattgctgct gggcttctat atgaacctct aaaatctcag 240
 ggatcctctg tttgagataa ttagcgactc tggcaaggac agtggaacgc ttgtgcaaaa 300
 accgaccact aaggctaatt ttcacaaaag gcccatccaa gtcagctagt tcaaccactc 360
 ctgtcatgcc aacagagggtg tcaaagattt gaccagctc ctttcgagc 409

<210> 4747
 <211> 510
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068b04a1

<400> 4747

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 aatctggtct tgcaaaatca tgtctccaaa atattaaaga ctacatgggtt gagaagcttg 120
 gcatacacc taacaaaatt gatgacttgt ccaacctcct ttacaagaat tatggaacaa 180
 ctatggctgg tctaaggga attggatatg actttgacta tgatgaatat cacagttttg 240
 ttcattggaag attaccttat gagaacctaa aaccagacca agttctgagg aacctgttgc 300
 tgagcctacc ctatagaaaa cttatcttca caaacgcaga caaagttcac gcggcgaaag 360
 cgcttaacag gcttggatta gaagactgct ttgaaggaat catatgcttt gagaccctta 420
 atcccatcca caagagcatt gtttctgatg atgaagatga cattgagttt gtaggttcaa 480
 gaaccaccaa tccaaccacc acttgtaatg 510

<210> 4748
 <211> 505
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068b04d1

<400> 4748

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 aatatcgaag gggctaaatt aatatgatgc acataataat catctgaagc tgcgactgac 120

gtgtccacag ctagctttgc agggatatgca gctcctggat gtactataac gctcccatag 180
tccaggcgca gactacctaa ggtcgagaat gcttttcaaa gcataagctg caccttatac 240
atcactgtga tgtgccaacc agcacagtgt gaagccccac acgttttaca gcttgtatgt 300
tgcggttact gtgctctgcg aacatagttc tctgctgcct aagattggct atattgaggg 360
ccagctcata ggcattatct gatggctagc acactatagg tgtctttggc gcgactgcac 420
tgggattgac ctgacataat gccctaagat gtcaaagatt tgagaggtgc ccgaaccatt 480
acatgtggac gatggattgg aggct 505

<210> 4749
<211> 435
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b05a1

<400> 4749

atcacaacaa catggccgaa cgtggaggcg gagaccgtgc cggtttcggt cgcggtttg 60
gcggtcgtgg acgcggcggc gacaggggac gagggcggcg cagggcagga gggcgccgcg 120
acgaggagga gaagtgggtc ccagtgcga agctggggcg cctggtgaag gaggggaaaa 180
ttccgagcct ggagcagatc tacctacact cgctcccaat caaggagcac caaatcattg 240
acaccctcgt ggggcccacc ctgaaggacg aggtgatgaa gatcatgcc gtccagaagc 300
agaccgcgc cggtcagcga acccgcttca aggccttcgt ggtggtcggc gacaacaacg 360
gccacgtcgg tctcggagtg aagtgcagca aggaagtcgc caccgccata cgcggcgcca 420
tcattctcgc aaagc 435

<210> 4750
<211> 511
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b05d1

<400> 4750

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tatataatat gtccttcaat agaaaatgaa ataacaaaag gtagcaaac atataattac 120

tgggtcctag catgcttaag acgaggcaca atcatccgat aacatcaaaa ctgctgctgc 180
 ttctgctaac tcaagccttc accctttcct cctcgaggat aagggccttc cctgttggct 240
 ttgccaatag atcagagtac tcttggatg gtgatttga gaaccgagtc tccttcaga 300
 attcaggtgt tagaaaaccg taggttttca gcaaacagtc aaaagtagcc ttgacgaaat 360
 ttccgagggt tttggtggaa cccctggagg aagtgaagac gtcacgatt ccagcgaact 420
 gtaagacctt cttggggacc ctagcggcga cgattccgga cccacgaggg gctgggacca 480
 tgcggaactgt gacggagcca cactttccgg t 511

<210> 4751
 <211> 550
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068b06a1

<400> 4751

aatcaagtca acccctcttt caatttcaac cctatatctg ctctcttttt cttcatcatt 60
 tgtttttggg tctctctgtt tccaagtttt tgagttatgg catcgaaacg catcgtgaag 120
 gagctcaagg atttgcagaa ggaccctcct acatcctgca gcgcaggtcc cgtggcggag 180
 gatatgtttc actggcaggc aacaatcatg ggacctctg atagcccata tacagggtggc 240
 gtattcctag tttcaattca ttttctcct gactatccat tcaaaccacc aaaggttgca 300
 tttaggacta aggtattcca cccaaacatc aatagtaatg gaagtatatg ccttgacatt 360
 ctaaaagaac aatggagccc agcactaacc atttctaagg tccttttgct catttgctca 420
 ttgttgacgg atcccaaccc tgatgacctg cttgtgcctg aaattgcca catgtacaag 480
 gctgacaagg ctaagtatga agccactgct cgtagctgga cacagaagta tgccatggga 540
 taatcatgct 550

<210> 4752
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068b06d1

<400> 4752

ggtcctaact attaatcgt taccctaatt tggaaaagca cgcaaccacg cactaaattt 60
 gggacatttt gcaacatatt ttttcctgcc cgatgttttg caaaggaata ttccccagtg 120
 atcattaatt cccttaccgt ggttgatttc cactggccaa aagaaggcct atcactcatt 180
 aaagggatat ccaggttttt aataaattat gattgggcct tttccgtgcg cctcttaagg 240
 gggcccttga caatcccagg ggatactttg ggggccaggt acaaacagtg ggttcatact 300
 gagccttggt agccttgac atgggggcaa tatttggcac aagcggggaa ttagggtttg 360
 ggacgcccaa caaggagcca aaggcccaa ggccc 395

<210> 4753
 <211> 538
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068b07a1

<400> 4753

ggtgccctag gttcttattt gccaaatgct tcatggcaca ataggaaaat ccaaaaagaa 60
 tataatTTTT tgaggtttcg gtggccaagt ttgaaccacc attacaaaag cattgaagga 120
 ggggtgtacat gtaaaaaatg taatataaaa tttgttgtga aagcgacctc tgaaaaatct 180
 tttgagtctg aacctcaagc ttttgatcca aaaagcattt tggactctgt caagaattcc 240
 ttggatgctt tctacaggtt ttccagacct cacacagtta ttggcacagc attaagcata 300
 atttctgtgt ccttccttgc tgttgagaaa atatcagata tatctccatt attttttact 360
 ggtgtgttgg aggctgtggt tgctgccctg tttatgaata tttatattgt tggtttgaat 420
 caattgtctg atgttgaaat agacaagata aacaagccgt atcttccatt agcatctggg 480
 gaatattcct ttgaaactgg tgteactatt ggttgattct ttttcaattc tgagtttt 538

<210> 4754
 <211> 526
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068b07d1

<400> 4754

catcccaaaa gaaatatatc ttcatttaaa ttagcaatta aaaacttaaa actaatgtag 60

cgactccaag cgggctgtg acaaaggcag caccatttaa acaaaactaa ttctcaagtc 120
aatattgccg ctgcatcctc atctaacaaa aggaatgagt aagtattctg cataaaatag 180
cttccaaata aacatataga aggatgttat cgaagctttg cttttcaaat ctacagattt 240
ggcatgaaac cagagaattg aagccagaac agcgtgtccc aaacccgtga caattttgct 300
ccaaagacaa ggagatgcag ttcccaccag gagggcgact ccataagcta tttcaagaag 360
gataacacaa gtccagaata cgggcttctg acctaaacgc actgaaaaag attggatgcc 420
aaatacttta tctccttcaa tgtcaggtat atccttaaac agtgctataa ctacagagaa 480
gaagctcatg aatgcagtag caaaaatcaa tgatcttgaa aagaca 526

<210> 4755
<211> 586
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b08a1

<400> 4755

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actcgttcga ttgcgtgaac tctgaagtta atttttgttg cgaaaatgtc ggtggcgaag 120
aagttgatta gatgcgtcat ccttgacttg gacggcacgc tgctcaacac agatggcatc 180
gtaggcaacg ttttgaaggt tatgttaggt aaatacggaa aggaatggga cggaagagaa 240
gctcagaaga taattggaac gacgccgttt gagggcgctg ctgcggttgt gcaagattat 300
caacttcctt gtcgcccat tgaattcctc tccgaaattt cgccactctt ctctgaccag 360
tggtgcaaca ttaaagcact tcctggtgct aatagggttg ttaaacattt gaagagtcac 420
ggagttccta tggccttggc gtcaaactct ccaagggaaa gcatcgaagc caaatatcc 480
tatcatgatg gatggaagaa ttctttctct gctataattg gtggagatga agtacgaaca 540
gggaaaccct tcccctgaa tatecttgag ctgctaggag gtaaca 586

<210> 4756
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b08d1

<400> 4756

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actaatatgc aaactgatgt ccagtagaat aactggatta tgcccttaca acgatcaaca 120
ccaaggctct attcgacctg aagctaagcg gatgataaga ttgttctacg agcttttcga 180
atacgaatca ttcttaaaac ttgaatataa cgggaggatc aagagcccta tgggcatctg 240
ttcgatttca tgaatttgag ctaccaccct ttgaagggat gaaaaattga cctggggacg 300
tttghtaacca actatatcaa gccgactttc ttacccatag aaatgtcgat taaagccatg 360
gagtaaccat ggttctatag cccaaaattt gttgtagaaa tatggatgcc aaccaatgat 420
catcaccatt ttaaaagcac ctcttgccgc catccagctc atccggaata aacacttgca 480
cgatactgtg aaaggatatc tgaata 506

<210> 4757

<211> 517

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068b09a1

<400> 4757

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ttgtattttc tgcgataatt ttccattggg tggaagaaag tctcaacctt tattcgaaag 120
agcaaggatc tgagttgagt tgagtgatca tgtgtggtgg tgcgattatc tccgacttca 180
taccggcagg tcccgccagc ggggcgcggc gcgtgaccgc cgacatcctg tggccgagtt 240
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tcaaggatga ttcggaaatc gaggatgttg atgacgagga cgatgaagac gaggaggagt 360
tgaagaagaa gccctttggg ttctctcgct ccagcaacaa ggctgcttct aagcctctct 420
ctcgtggatc agcaactgtg gaatcaaagg ggcaagctga gaagtgtgcc aagagaaaga 480
ggaagaacca gtatcgtgga atccgtcagc gtccatg 517

<210> 4758

<211> 527

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068b09d1

<400> 4758

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agttcacaaa aggataccct ataataaaaa cctatatata gtcctatact actgcattag 120
ctacaagata aaataaactc cacataagct ttaagcaggt ttcttgctgt ggactccatc 180
accaacatca cgatcacatc tcctgaaagc aaatacaaaa atcaaaatga taataatata 240
catatacatt cagaaacatg cagggatgca aaaaaataat aataataaaa ctagaagcag 300
aatgaaaatt acgaacttgt agctttatct acataaaagg ggagataaag ggtgttcaga 360
agactcctgc catggaaggc aggtcgtcca agcttcaaag gttcataggg ttcccggcgg 420
cgtaatgagt tgcgtctccg ccgagcaaag acgccaatgt agcatcagcc caggctttat 480
caagaaaaga aggggtctca aagaacttga gctgggattc aatgtct 527

<210> 4759

<211> 563

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220068b10a1

<400> 4759

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tggttttctt ctcttcgggt tgaatcaatg ggtgcagagg ttaagatctg gaatcccgtt 120
gaagtcgctg agcaagctcg ccatgactac gcttcgcaga ttcattccctc acatctcacc 180
attgatccct cctcgagct tcctcaaagc acacctctcg tcctaaagtt gtgcaaggat 240
atgttcaagg cgtggtcgaa tttggatgat tcttgctttg ttgttgagaa aatttccggg 300
ggcataacaa atttggttact caagggttca gttaaacaag aaaactgcat tgaggaaact 360
ataactgtca gattgtatgg acccaacact gactacatta ttgatcggca gaggggaattg 420
caggctacca aatacatcac agctgcagga tttgggtgcta agtggctcgg catatttggg 480
aatggcatgg tgcaatcttt tataaatgca cacactctat ctnccttcaga tatgcgagag 540
ccaagctgg ctgctaaaaat agc 563

<210> 4760
 <211> 517
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220068b10d1

 <400> 4760

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 attacaacat agaätgtaga agagcctgta gctcaaacat aaacgcctaa ttagccatta 120
 ttgtgataag cgtctaaaaa tgatatgtta cacaacatt aaactacatg aatcagggga 180
 ctcattgctac aaacttgacg tacaaaaatc ccacgaatga ctgagtataa gtataatcta 240
 tctatctact catctcattc ttgcatcctg aaaggttagga ctgtgccagc aagaaatact 300
 tctctttgtg cctttttgtac tcgtggtatc gaaggaaaaa gtaaccaaga taatcaaatt 360
 caattgcaga catctttgcc tgaattagac ccacaaatgc ccagaaaatg tgagaagcaa 420
 gggaaaatgt atttgctca acatacaaag tttcaagatc tttctcagac acctcttggg 480
 gtctttcagg tttcaagtaa tgcctgagga aatgata 517

<210> 4761
 <211> 557
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220068b11a1

 <400> 4761

 tgggtgctaaa aaggagcctt tagttacttg ggtgcacat tggctagacc attcttaggt 60
 ccatttgcag ccttttcaga tgggtctagcc aatggtgcta aaaaggagcc tttagttact 120
 tgggtgcata aaaattttca ggggaatactc accaacgaga ctaggtgcct gcgatgtgaa 180
 actgtgacag ctagggatga aacatttttt gatttgagcc ttgatattga acaaaatagt 240
 tcaattacaa gttgtttgaa aaacttcagt tcgacggaga cattgaatgc cgaagacaaa 300
 tttttttgtg acaagtgtg cagtttgcaa gaagctcaga agagaatgaa gataaagaaa 360
 ccacctcaca tcttggatc ccaccttaag cggtttaaat acattgaaca actgggtcgc 420
 tacaagaagc tgtcttaccg ggttgtcttc cctcttgagc tgaaattgag cgatactgct 480

gaaaattcag atattgagta ttctctatth gcagtagttg tccatggtgg gaagtggccc 540
aaccatgggc attatgt 557

<210> 4762
<211> 331
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b11d1

<400> 4762

ctacgagtga acctgccatt gcatcaagtt aatatcgatc atatactaaa caggtaacat 60
gatggatatt ctgctgggtga aatttttaaaa ccatatgcac tgattttcat ggtaggactc 120
aattaggtga aaaaggacag cgttaccact gtccactgtg catgtccacc actaaggcta 180
cattttgcca acccttattc ttttaagaggt gcttaataac tacttatgcc tgttgtatth 240
acccggacca tcatcattga ctactacacc tatgtacctg acaagtgcaa atgactctag 300
catgtaagat tcataaggct actacgttta c 331

<210> 4763
<211> 522
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b12a1

<400> 4763

ctcgagccga ttcggctcga ggaacgatca ggagttccgc ggacggagga agaacacaag 60
ttgttttttg ttggattgca gaaagtaggg aaaggtgatt ggagaggaat ctccaaaaac 120
tacgtcaaaa cgcgaactcc gacgcatgtt gtcagccatg ctcagaagta ctttctccga 180
cgaagcaacc tcaatcgccg tcgccgtaga tccagcctct ttgacatcac caccgacacg 240
gtctctgcaa ttccgatgga ggaagaacag gtccagaatc aagacaccct gtgtcattca 300
caacaacaac ccgtgttccc tgctgaaact agcaaaatca atgggtttcc agcgatgcca 360
gtgtatcagc ttggcgttgg ctcttctgga gtgatttcag tccaaggtac tggataccca 420
atggaagaac tcactctggg acaaggaaac gctgaagaac acaatgtgcc aaacacggcc 480
tctacagtgt ctggtatcat caccctctgt tcttctagtt ct 522

<210> 4764
<211> 478
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068b12d1

<400> 4764

catcagtga agttcatatc gaacgttaat acattatcag caaagaacag agtgtacttt 60
gttattttca gttacatcaa ctactacaaa cgtaaaccggc caaataaaca agaattctaaa 120
gtcatgacat taattaacat aagcaaacat gacgaaacag gacaggacct tttctgggggt 180
ctgtacaagg aacagaagga tcaaattcag tctgttaaaa ctcttcttgc cttctctaatt 240
ccatcgccct ttccttcaac ctctttctct ttctcccacc aaaaagacag gaaactagag 300
aaatattaat atatgtaatt aatctgtgaa tccaaggacc atattctcaa gcaacactaa 360
tgatgctatc tccattgctg aaacattgca tggcatgtaa agctgaaatg cttgatgatg 420
tctgtctttg gtcagatgag aaggatagcc ccagggacag tgtcgggtggt ggggtcaat 478

<210> 4765
<211> 510
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068c01a1

<400> 4765

attttaatca cgcgcacatc atcacaacac aacaattcac taagctaaaa tcaacttcac 60
atggcttctt cgtgtgcttc ctctgccatt gcagctgttg ccatctccac accaagttcc 120
cagaagaatg gatcactctt gggaagcaca aaagcttctt ttcttagtggt gaggaaactg 180
aaggagaaca actttacagc accagttgga gcacgatcca gcactacagt ttgcgcagtt 240
gctgagcctg ataggcctct gtggctccca ggcagcacc ctcctccatg gctagatggc 300
agtttgccag gagattctgg ctttgatcct ctaggtcttg catctgatcc tgagagcctg 360
agatggaatg tccaaacaga gcttgtgcac tgcagatggg ccatgttggg agctgctggc 420
attttcatcc cagaattcct cacaaagatt ggtatgctga acaccccttt atggtacact 480
gctggagagt tggagtactt cacaaacacc 510

<210> 4766
<211> 462
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068c01d1

<400> 4766

gcaaaaactg tgattacttc ctgaatttac attaaatgca tctaaacctt aaataggtat 60
ttgtacattg aatcttcaat ctatgcatga caatagaagt agccatttta caagctttca 120
ccaacataaa cactcccacc taaaaccatt taagcgttac aacttagtta aaaagggttg 180
ccaatgtttc tccaaggctt gcaatcatag agttgttcca acacttctca cttgggagtg 240
aaagcagcaa aaatagtagc atggccagga tctgcaaggt gagcaaagag gttgtcaata 300
ggaccagtgc cagtgtaaat gtgctggaac catgccccca tcacagccaa catggccaac 360
ctcccattct tgatctcctt tgctctcaac tccttgatct tctcaggaga accacttccc 420
cagccaagtg ggtcaaacca aagcccacct ggttacccaa ca 462

<210> 4767
<211> 569
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068c02a1

<400> 4767

cgaaaggggg ccaagtatca ttccaccgtt aacacattac acaactttac catctccatc 60
tctctgtgt tatattttgt cctcttttat tctcatctga tcacacacac tctgtcacgc 120
accaccatt ctactacact cctctctctc actctcactc tctgctccgt gatagctgta 180
ccacgttttt ctctccatct cgaaacacca tctctgcctc agtcccaacc catcaccatt 240
ctcatggctg ctctagctct agcacttctt cttctggctt tcaccggcac ttcaagtgt 300
acatggtgcg tttgcaagga tggaagcgac gcgatcctgc agaagacgtt agactatgct 360
tgtggagctg gtgctgactg taaccctctt cacctaaacg ggccttggtt tcagcccaac 420
accgtcaggg cccactgtaa ctacgccgtg aacagctact tccaaaagaa aggtcaagct 480
caagggtcat gcgaagttgc gggaacagcc actgttactg catctgaccc cagctctagc 540

ggttgtgtct acccttctag cgtcagcgc

569

<210> 4768
<211> 431
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068c02d1

<400> 4768

ccgaaacaat tgggcatgat ttctattcat tgaaagcaca aaattaacgg tttatagtta 60
cgtaaataat tacatagcat tgggtgcact aggtccaccc ttccatctca ttgacaacgt 120
tatgtacttc ttcgtacaga gcttaagatt aagaacaagt ggagccaagt tgttaccata 180
ttcaattaat taatcaaaaa accaatagct agtgggaagg ggagaaaaat attatataag 240
aaccacaaaa actaacgtcc caagttcaac acctagaaaa atagcattca cattaatata 300
gtgaaataag gcattttgca ccatataccc aggtcaagcc attttcattc tcaacccag 360
cagagcatca tgaaggcaga gatgagggcg atcgcgatcg agaagaaact actgctgtga 420
acaaatctaa t 431

<210> 4769
<211> 433
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068c03a1

<400> 4769

ggtcaaaactc gcgaaacctg tcacgcggtt ttccacctcg aacgccgcga aaaacattcc 60
ctcctccctc aaattcggca caatcctcct cgattcccct ctcttccttt ccatgctcaa 120
caacaacgaa tacgtcaacg ccgattcacg aactcgccga gtcgaagtga gtcagtctga 180
ctcggcggcg attctgttct cctcgggaac cacggggcgc gtgaagggcg tgctccttac 240
gcaccgcaac ttcacgcgc tgattggagg gttctatcac cttagaatgg tgggtggatga 300
tgatccgcac ccggtgtcgt tgttcacgct ccccggttcc cacgtggtcg ggtctttatg 360
ctgggtaggg gcatcgccga cggagagacg cttgtgttca tgcatagggt tgatttcaag 420
ggatgctgaa gct 433

<210> 4770
<211> 371
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068c03d1

<400> 4770

caaagaatgg tattactaat accagaatgt actttaataa taatttatat acaaagagaa 60
cagtagtgga ttccacgtcc aataataagg ggcttttctt agcatccaat aagggtgaggc 120
ataaggaaga caggcctaac cttaaaacct ttacctcaat cagaaacata tatgtttctc 180
ttcttctgat gaatgaaatc aattgtacaa aaatcagcaa tatacaaaca tatttcctat 240
ttgacaattc agctaataaa tgaatgaact ggctctatgg atcttatggt cctaacataa 300
gctcaatcta acgtcattgc cacatggatg atgctggaat gcgactaatg gcgggccaag 360
tgaatgaaag t 371

<210> 4771
<211> 355
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068c04a1

<400> 4771

accttctgag gttaaagcaa tatacaaaga gagagagaga gagaaaatga tgaaggcggc 60
gatgctcaga tctctacact ccgctcgccac ccgcggtgcc tttcatattt tctcggcgtg 120
gtgacgcctc cgagccggtg ccggagcgca aggtaaccct tctcggcgcc gtcggcgggg 180
ttggaaaagc ctctctccct ctaaagtagc ttaataccca tagttcgagc ctctttcttt 240
acgatatagc cggaactccc cgggtgtgtc cccctattta accccactta caccacttct 300
ggggtatggg gtaccaaggg gacgaaaagt ttggaaaagc atatggaggg tgccg 355

<210> 4772
<211> 78
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068c04d1

<400> 4772

tttcgccctt tttttttata gaatcttggg atttcacaaa tgaagattac acatggactg 60
agcttcatga cacatgag 78

<210> 4773

<211> 365

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068c05a1

<400> 4773

gtttctcagt catctttggc atatatcaaa attaaccttg cattattcac cagaatggct 60
aattaatatg aaaacaactt cccccctcaa aagcaagaca ctcagcctgg caaagagtac 120
ctcatgaatc caccacccca atacatcaga ttccaatata agccatcaga taaacttcag 180
ggaaagatag ctgttgtaac cgggggtgat tctggaatcg gacgatccgg gtgcaactag 240
gtttcattag aagggtgctac tgtgatcttc acctacgtga atgggcaaga ggacagggac 300
acgagcgaca cgcttgacat tataaaaata gctaagactg aagatgctta agatccattg 360
gctat 365

<210> 4774

<211> 469

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068c05d1

<400> 4774

ataatagatc ttgcttcaaa tatatttcaa gtagtacatt ttcttaggtt tatacgtttg 60
aaagcaatat ttatgcttgc tttcaacgaa ttttcatcca gacatatatt atacattcat 120
acatatcgat agaaccgtgc tcattcactg ccattcgtaa catagtgatg gcgtagacaa 180
gaaccacact gagtcaatga catttcatat accagtctcg attaatgagg tatcatatat 240
atatccgcca attcatcaag cattcacaat gattccacca ttgggggtgga ggacttggcc 300
agtaatgtaa gaggagcata tgttgctagc aagaaagaca tgagagggag caacttcaat 360
aggttggcca gctctcttca ttggcacatg cgaaccaaata tgaacaatag gttcctcgtg 420

catagttgct actattaacg gaggccagat ggggccatgt gcaaccccg

469

<210> 4775
<211> 118
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068c06a1

<400> 4775

ggaactgaag cataattgtc gtacttcaaa attcaactcc caacacacaa catcatggct 60

catggatatc aacgcctcca cgcgccgaga aagcaacaca gttatcctga ccagaat 118

<210> 4776
<211> 393
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068c06d1

<400> 4776

gaacgtaaca ggactctata attgatattg cttgaggtat attgcacgtt gtgcatatta 60

taaggaaaat acgttagact ggacatctta tgtttgact taacaaatcg agaatacatc 120

aaatgttaca cgctcgtacc attggatcgt atcgcgctcg tatcatgaca tccttcacga 180

acagaagtct ttacctggca ccacagtgag gccttgactg ttacgaatgc cagaaagtat 240

ccatgaggta tcatcatgga tcgcacaatc aagtgcgcac tcgcaaagga tctagcaagg 300

cagtggacga cttggacaat actgtagtat gggacaatga tgctaccatg cgagacgagc 360

tagggaagag ctttaatggg ctggtcaaat gtt 393

<210> 4777
<211> 523
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068c07a1

<400> 4777

atgatttttag ggttctcact gccgttgaat tggggatgcg gaatcatgaa atcgtaacca 60

ccgaactcat cgaccgaatt gcgcgtctca agcatggagg cacgtacaag gttttgaaaa 120

acttgctcaa acacaagttg ttgcatcacg actcttctaa atatgatggg ttccgcctta 180
 cctaccttgg ttatgatttt cttgccatta agactatggg gaacaaagga gtgtttgtag 240
 ctgttggacg ccagattggg gttggaaagg aatctgatat atttgagggt gcccggaag 300
 acggaacagt tctggctatg aagttgcata ggcttgaag agtctctttc cgagccgtca 360
 aatctaagcg tgactacttg agacatcgca gtagttataa ttggctctat ttgtctcgcc 420
 tcgctgcact taaagaattt gctttcatga aggctttgga aacacatggc tcccctgttc 480
 aaatgcaata gaaagcaata gacattgtgt agtcatgtca ctc 523

<210> 4778
 <211> 549
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220068c07d1

<400> 4778

aatagcagtt tgaaaagtca aatataaaaa aatggggcaa tgacaaaatt ttccaatata 60
 gagaaggcaa aattttcatt ccaaataaat atcggaata atatgattat cctccgcagg 120
 aaaagggggg cgagacaata acctatttgc tttcctattt ctcaacttta cacatgtttg 180
 aacttttgaa cagataaagg ccacctacaa ttgcctacct atctgataga tgtcaccgtt 240
 gaaactatat ataaagtcc tttcagttca cttcacaaca aggccctcata ttttcaccag 300
 ctgctcaact gtttctggat tttagaattg tgagatgatc taccaccttt gtctttgtag 360
 gaatttctgg ctgcaacagt ctttcgtgcc ttatgagctt tcgctatggc atgtcgacgt 420
 tgcttactca agttcttaac gagttcagct tcattttgca atgtatcttc attgctttgc 480
 ccattgacac ttgcatgtcc ctttttagat ccactgcttt cacgtgcttt acagatctcc 540
 tctttccct 549

<210> 4779
 <211> 555
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220068c08a1

<400> 4779

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cctcctttcc tctccctcct cctagatcga gtcagaatca tggccaaagc tgaagggtggc 120
aaggaaccaa taaatgaaca agcagtagca aatatgtatg ctgcaatgag gtctgagctc 180
aaccaaattt actccaaaat aactgaactg gagatggaag ttagtgagca cacattgggt 240
accaatgccca ttcaaccact tgaccaatct agacgatgct atcgtatgat tggaggggtg 300
cttgtggaga gaaccatcaa agaggtcttg cctgctgtgc agcgaaataa agaaggactc 360
gaagaggttg tggcaaggct taacgaggcg ttggaaaaga agaaaaagga aatttctgag 420
tttgaggcta attataaaat caggataagg aaggctgatg ctgangtgaa ggatgaatct 480
ggtaagaagg aagggtctgc tcaaggggtt catcgtggtc ctgcangtgg aagtgaatga 540
tttggtatt tttat 555

<210> 4780
<211> 425
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220068c08d1
<400> 4780

gggaaaatgc cttaaacctt tttccattac ttttttttgg attggttcaa aaacccaatt 60
taacaaaagg ggggtttaga aaagcctttt acccctgggtg aaacattttg gttcctaaaa 120
gaggccaaat agcttgatcc cccattatt tgccctaatt ttgcatacaa aaattttcct 180
taacccaac caatgaaaat aaattttttc agcccaaggc aagtaaacct aagggttat 240
taagccaggg atacctgctt aagaacgggg gtggaaacac cttttggatc cccggttaag 300
cagcaaaacc ccgttaaaaa ggggcccaag ttacctttac ttgcctttat ttggaccgga 360
caagaattta atttgaccc ccccttttagc ttcattttaa gccaatgacc aaactggctg 420
tacc 425

<210> 4781
<211> 508
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220068c09a1

<400> 4781

ggctcgagga actaccctaa acgacgccgc attcaaattt cgcgccaccga cgcattaacc 60
ccttccaagc cccgacggtt cccgagtggg gatggcggaa acgcacgaag acacaccgaa 120
agaaaccggt cacaaagaag aagaagaaga ggaccaaagc ttcgaagagc tcggcgtgga 180
cgctcgtctc ctctcgcccc taatcaagaa aagaatcgag aaacctactc caattcagcg 240
cgtcgcgatt ccaatcattc tggaaggtaa ggacgtgggt gcacgtgcca aaacagggtc 300
gggaaagaca ctgcggtacc ttctcccggt gcttcagaaa ctgtttactg ctaactctga 360
tcggaagaaa ctgcgcgcaa atgcttttgt tcttggtcct actcgcgaac taagtcaaca 420
ggtatatgcg gaagtgaagt ctctgggtga attatgcaga gttcagctga aagttgtgca 480
gttgaatagt aacatgcttg ctaatgac 508

<210> 4782

<211> 494

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220068c09d1

<400> 4782

gaaagctaaa ttctagtttc aattagcata atttaactta gtaatgagca ataacttcag 60
gccctacgcg gtataaagga aacaacaatt ccaatactgt actgtttttc gttttacgat 120
atttgacct aaattacaac aaaattgagc ctgttataag gctttgtagg aaacgggcaa 180
atcaatcaaa tacccttatt ctttttgtgt ttatgcctat cactgctatt taggctatcg 240
cttccaccag tcttcctagc tttgtgcggt ctttttgatg acgccgtagc atagatagcc 300
ttcagagggt ctcttctttt tcttaattat ctcttgatc ccttgcggcg attattatct 360
cccattgcat cccttgcaag cttgaccatt tcccttgctt ctttcgttgg tttgtctaat 420
aggtacttaa gcacatcccg taagtgaaga ggtgggtgcat tcttgctaaa attttgtcat 480
gcttcagtag atct 494

<210> 4783

<211> 594

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220068c10a1

<400> 4783

ccaggcgcac gttagcacia actatcatgg ccacggcaac agcagctgcc acctcgctct 60
ttatggggac gcgtctcctg gaggctcact ccggagcggg gcgagtgcac gcccgattcg 120
gcttcggcaa gaaaaaggct cccgccccaa agaaagcctc caggggatcg ggccgagaca 180
ccgacagacc cctttggtat cggggcgcca aagcgccga atacctcgat gggagtcttg 240
tcggagacta cgggttcgat cgtttgggc tagggaagcc cgcggagtac ctgcagctcg 300
agctggactc gctggaccag aaccttgca agaactggc tggggacatc attggaacca 360
ggaccgagct cgcggacgtg aagtccacgc cgtttcagcc ctacagcgag gtgtttgggc 420
tccagagggt ccgtgagtgc gaactcatcc atggaagggt ggccatgctc gccactctcg 480
gagctctcac tgttgagtgg ctactggtg ttacatggca agacgccgga aagggtggagc 540
tagtagaatg gtcatcatac cttgggcaac cacttcattc tcaacaccac actg 594

<210> 4784

<211> 260

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220068c10d1

<400> 4784

aaaaccatca atggtcaaaa ctcaattccc cggcattacg tttgatggtg ggctcaatct 60
aatgcgtatt tattaccctt cgtgattccc tttgaaggcc cggcatagtc aacatttaca 120
ggggagcatt taacatcaag ctgaaacctt tttgcttacc cactccaatt ttacgttaca 180
agctttctac aagtactacg aattcaactt ggggaaaatg tgctaatttc aaccaaaggc 240
cgaccaagaa gggcctttta 260

<210> 4785

<211> 557

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220068c11a1

<400> 4785

gttttctggt ttctttcgtc atgctctgat ttattgctta cgatttggaa tagtgacaag 60
 taaagacaaa tcacaactca cggtcaccca attccaagaa tagagcttta cgaggcagcg 120
 gcttcaaaag gaggggaata ttcagaggaa aagaaagagt agttgttgaa caataagagc 180
 tttcctcatt cttagtttat ctcaacaagga aggtacgtaa gatccttaac acccttaccg 240
 cggttacttg ccgcctcaat ccattgctga aatgaatgct cataaataaa tatatttgca 300
 ggctacgaat ctctgctcct agatttttgt ttcttaatta tcaatctagt ctctaaatta 360
 tattaanaaga tttaatttga ttccaaattt ttaaataatt taatttaatt tctatattat 420
 tttaaaatag attaatttga ccatttttgt ccaattgtga ttagtataac aaatttcagc 480
 ggcttttatt tatgaacagt ggaattatta tattttattat tagtttaaaa aataaaacaa 540
 ttttcaattc tttttct 557

<210> 4786
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068c11d1
 <400> 4786

atctctatat cttcaaattc aatgtctacc actgtgctat aagaatctga atatattgct 60
 tggcaaattt ttagcataaa aagtcctgta aattgtcatt aattagtttt agaaagcatt 120
 agttggaatt cagattttga gatcacgatg agagtgcatt tatccatgca tttcatttat 180
 tttgtgcaca ttagcatgtg gtttattaaa agttgtgttt taaaacataa cttattcata 240
 actccgtaat aaattcaaaa attactcatg ttgataaatt tttcaaaaaa actaccactg 300
 ttatgtaaaa aaagcctaaa ttggaatagc gttataggtc taataaactg tatattctaa 360
 agcatatagt taaataatga aaatatacgt cactataaat tcaaaagttt ggagcatcct 420
 taaaaaaaaa cttaattatt aacttgggtta ctaaattatt ttttaaaagg tttaatttat 480
 tcccaaattt tttaaaagtt tacttttagtc acaaaattat 519

<210> 4787
 <211> 302
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220068c12a1

<400> 4787

cgcgatttct cttccaccgt gaaaccctag acccgactgc gagcgcgag ccgagccatg 60
tgectcaacc gctccttttc cgcgggccga cgctccgacc ggcgggcctc cgccctctcc 120
tcctccgat cctctccgc ctacaccgtc gtggcccccg tcgctcgtg ccatatgaac 180
gttggtgtca cagcggcatc tgcaatgaac gtaccgcaga tgccttcata tcgatactga 240
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<210> 4788

<211> 412

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220068c12d1

<400> 4788

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aagtcctctg tcttgaaggg actctgatgt ttctaaaggg ttttaagggt tttcaatact 180
aggaagcttt tcaccacata ccaaaccatt ttaccggga tggtttcttt gctttgaaga 240
caccacacaa gtagtacttt tcttgaaaat ttcggcattg aataggagat aatttagaac 300
gaaaaattag aagctctgca ttttcaacct ctgggtctta ggaaagggtca aagttcatca 360
tgtcctttac caggttggga aagggccttt taactctttc actatcagga aa 412

<210> 4789

<211> 247

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220068d01d1

<400> 4789

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taaaaccatg ttggaaaaat tgacccttta aaactgggtga tggacagaac aaaatggcca 120

ggggccctgt acaatatggg tgcattcggg cttcccgccc aaaattatga taacttgcaa 180
gaacccccaa ccaatttgag cccacatagc taataaaccc cctgacattg gaccaaattcc 240
ctcttaa 247

<210> 4790
<211> 229
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220068d02a1
<400> 4790

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ctagtaacaa gtgatccatt atacattcat ggaactcaga tatcaatagg tttttttgca 120
gctgatccct aaaagaaaag gtgtcaacct tcttggtcta gcctggtttg acattactac 180
tttgtaattc gaaatttaag tagtgaaata agtgtgaatt tgatattcc 229

<210> 4791
<211> 229
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220068d02d1
<400> 4791

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aaaccaggct agaccaagaa ggttgacacc ttttctttta gggatcagct gcaaaaaaac 120
ctattgatat ctgagttcca tgaatgtata atggatcact tgttactagg acaactgcat 180
cttacattga gagcattgta caagcaataa attttacctt gagttcaat 229

<210> 4792
<211> 417
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220068d03a1
<400> 4792

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ccttttaggtg taaaagtcac agctaacgat atagaaatga aaccgctaac tgttaacact 120
gaagattctt tttccagttt tactggaact tgcttctaac aatgatattg aaggcttcaa 180
ggtcctttta gagaaggatt cttctacgat caatgaggtt gggctctggt atggccggca 240
aaacggatca aagcaatttg ttcttgagca cagatcccc tlgatgggtg ctgccactta 300
tggtagcatt gatgttatga agatgggtact tttgtgcccc gaggtgatg tgaatttcgc 360
gtgtggggcg aacaaaaaca ctgcccttcc actgtgctga ttctgggtggg cctacca 417

<210> 4793

<211> 379

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068d03d1

<400> 4793

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catctttaat tattccctca gaaagaaaca acttcaacca taggcaacag caaatcattg 180
acttggttta acttagtgaa cttcagaaaa atctttcaaa acaaacgcat gctaataatg 240
ggttttgttc cattataaac caaactagct tgcttgatcg tgaactcaga aatcaagtaa 300
aatagcaagg ggaaaaatcc tgaaacgggg ccatttttga agaaaaatgg ataaccgcga 360
cgggattttt cttctacta 379

<210> 4794

<211> 169

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068d04a1

<400> 4794

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ttactcaagt ctaaaatttta tcttttcttg ggattttttg gcttttaagg gaagggaat 120
tattctttta ttaaaaaaaaa atatcaaaat ttataatatt ttaaagggg 169

<210> 4795
<211> 136
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068d04d1

<400> 4795

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agacttgagt aacttcttat ttttgggggt acaaaacttt tacctgaggg aactagctac 120
attttaaaag aatctt 136

<210> 4796
<211> 478
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068d05a1

<400> 4796

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cctaagatca gaatttatga tgttggtatg aagaagaaag gtggtgatga gtttcccttc 180
tgtgttcac tcggttagctg ggaaaaagaa aatgtttcaa gtgaagcatt ggaagctgct 240
agaattgcat gcaacaaata tatggcgaaa tttgctggaa aagatgcttt ccacttgaga 300
gtccgagtac atccattcca tgttcttagg atcaacaaaa tgctttcatg tgctggagct 360
gataagcttc agactggaat gagaggtgca tttggaaagc cacagggaac atgtgctaga 420
gtcgccattg gtcacgttct tctttctgtc cgctgcaagg acaggaacag tcatcatg 478

<210> 4797
<211> 465
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068d05d1

<400> 4797

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ctcagattga gtcgaacaca actattgtgg tcaaagccca ctgtttccat gtgacaagcc 180
atcttagcag tcgcagtagc actagattga aaagctcgtc ctggtttagac ggtttgccag 240
tggtccatgg caccacagaa gcttagcatt cacacatga ggcacaatcc tgctctctga 300
cttgtacttg agataatcag cacggctaaa cttggtgaaa ccccatctcc ggctaactat 360
gatcttctga cgaccagga acttacactt agcacgacga agagcctgct gtgcatgatg 420
actgatgctg tccttgcagc ggacagaaag aagaacctga ccaat 465

<210> 4798
<211> 438
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068d06a1

<400> 4798

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atgagatgag agcaagagga atagctccca ccaagattag gtacactact ttgatgaagg 180
ctttcgcata ctcggtcag ccgaagcttg ctcacagagt gtttaacgag atggacagtg 240
accctcgggt gaaggtggat ttgatcgcgt ggaacatgtt ggtggaagga tattgcagg 300
tgcggttggt ggaagaggcg aaaaaagtgg ttcacaagat gaaggagagt ggatttcacc 360
ctgatgtggg cactgatggc agtttagcca acggaattgc attggcaagg aacccggaga 420
ggcacttctg ctttgaa 438

<210> 4799
<211> 522
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068d06d1

<400> 4799

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taciaagcga cattgcagtt gtagagtaca ataggcactt ttttttggtg actaaacatt 120
tattgctaca ttgtacaata gaagagtcct ttctcatact tgagtatgtt ttgacaagct 180

attaaagggg gagcaactga accgaatcag aggtattgcc atacccttcc ataggtttta 240
accgtcactc acttccatca taataggaat tatgcaaacc catccaaaac ttaaacgcct 300
cagcagtcct tttcctctct actcttgtgt attgtgtagc ccttgaagca tgcttactag 360
taaacattat tgaatgcatt cccacatata ttctagtaaa cttggacttg ttgggaggta 420
tcccattgta cttcatgcaa gccactatct acaatgcctt tctaaagaaa gcagccctca 480
cacatatatc agcaattgta tctaaaagcg ctacatccgg tt 522

<210> 4800
<211> 463
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068d07a1

<400> 4800

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cctcctttcc tctccctcct cctagatcga gtcagaatca tggccaaagc tgaagggtggc 120
aaggaaccaa ttaatgaaca agccgtctca aatatgtatg ctgcaatgag gtctgagctc 180
aaccaaattt actccaaaat aactgaactg gagatggaag ttagcgagca cacattggat 240
accaatgcc a ttcaaccact tgaccaatct agacgatgct gtcgtatgat tggaggggtg 300
cttgtggaga gaaccaataa agaggctctg cctgctgggc agcgaataa aaaaagactc 360
caagagcgtg tggccaggct taaccaagcg gtggaaaaga agaaaaagga aatttctgag 420
tttgaggcta attataaaat cacgataagg aaggctgatg ctg 463

<210> 4801
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068d07d1

<400> 4801

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attgaaatct cataggatta ttgtcccaag cctgactttt acaaacaact tcgcctcaag 120
gttttttagag acaccattga ctgccttgag acaactatct aaccaaataa gagacctgaa 180

aatcctggct aaaatcctag gcttcgaact aacgggtctcc tatacatttt acagacagca 240
cgaacgtgaa atgtactgac tatatcccct cccagaatca cagtgggtta atgctgcatg 300
atgatcccggt gataaagttt gctccataca cccgtggaga ccttggttct ataggctatc 360
cacctgaaac tgtgctaact gcgctagacc agaattttga acactacgga cctggggagat 420
actatgagat tcttcccaca tcttaaagta cgcataagga cccattctt gac 473

<210> 4802
<211> 545
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068d08a1

<400> 4802

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tgctcaacgc ggagcaccac ttctccgct tcaagacaaa gttcgccaag acctacgcca 180
cgcaggagga gcacgaccac cgcttccgta tcttcaagaa caacttgctc cgcgccaagt 240
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cgtctgagtt tcgcggccag ttctcggcc tgaagccgct ccggcttccc tccgacgctc 360
agaaggctcc gatccttccg accagcgacc ttactaccga tttcgattgg cgcgaccatg 420
gagctgttac cggcgtcaag aatcagggct cgtgcggatc gtgttggtca tttagcgccg 480
ttggagcttt ggaggtgccc attttctttc taccggtggg ctcgtagacc ttaatgagca 540
gcaac 545

<210> 4803
<211> 383
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068d08d1

<400> 4803

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ttactgcaat ttttgacgta cgccctatac tggggcccct accatgttaa ggcattccatc 180
 cgtatgttta aggggtaaaa acgtgtatag catctacagt tgaaaccata gagctcacc 240
 cacatacatt gcaatctatg caaatctttg aatatccttt ttttaccag ctttcccccc 300
 aagaattttt tatgagccag ttagggcttt ccttaaaacg aatcggagca ttagcaccag 360
 atccatagcc cacccaaaga acc 383

<210> 4804
 <211> 531
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220068d09a1

<400> 4804

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 tgtcttggtg tagctaaagc tttggcttat cttcatgaag agtccagaat aaaaatcata 180
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 ggaaccattg gttacatggc tcttgagtat gcaatgcgtg gctatctaac tgacaaagca 360
 gatgtttata gctttggggt ggttgcaactg gaaactgtca gtggaaagag caatacaaat 420
 ttcaggccaa acgaggattt tgattacctt cttgattggg catatgttct gcaagagaaa 480
 gggagtcttc tggagctggt tgatccaaat ttgggttaga ataattaact g 531

<210> 4805
 <211> 498
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220068d09d1

<400> 4805

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 aacacatgtg tgtcacgttc atgaggatca ttttataatg atatgcaaca ttgaattaaa 180

tattctcatg caatggagca ttctggagga aggccttgag ggaaacgtct gatatcagtg 240
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 tccagtgatt ggccagtgga ggaagaagtt tgggaattga agtttctgta tgaggctgtg 360
 aatggggcct tgctccaatc ccgtttcaca agctcaccca ttgtgggcca atcctcaatg 420
 ttccaaagac tagagtatat ttcatgggt tggctttttt ggaatggaac cccttaggt 480
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<210> 4806
 <211> 524
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220068d10a1
 <400> 4806

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 agcgcttttc aaacccccgt cagctggcaa cacaagtgat gtaattgagg cttcagggac 180
 tgcaaaacct ggggaaattg tttctagttc tgataggagt gcagctgtca acaggaatac 240
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 ttatggtgga ctaggaggag gaatgtatgg atcatcttat ggtgggggga tgtatggtaa 420
 cagtatgtac aggggaagat atggtggcat gtatgggtca tccgggatgt acgggggtgg 480
 aatgtataac agtggcttan ggggtccaat ggggtggttat ggca 524

<210> 4807
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068d10d1
 <400> 4807

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ccaggacatg tgcattgaatg gcatgaggat caagatacca tgacttgcaa aattgaaagc 180
catcttatgc tgcgatggaa catcctgctg gatggtaaac ccaggaacac atgacttatg 240
cgcgatcagt gtcattcatgt gaatgcaggc gcccaacgga tctttgaatg cccctgggcg 300
aacagtgatt ggccaacagc agaattgagtt agtgaattgc aggatttgcc taaagcttgg 360
actgggaacc acgttgagca gcctttggtg actccatgcc 400

<210> 4808
<211> 584
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220068d11a1

<400> 4808

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accacaaaga acccaaggag tttgtctcgt tggaccaact tgctgaactt ggagtcctta 180
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gggtcaagaa aggaggaatg atcatcttac ctgctggaat ttatcatcgc ttacactag 480
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<210> 4809
<211> 526
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068d11d1

<400> 4809

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atggctatct ttcaaagggc cacctacaca gaaacacagg cgtgggtaaa aggcttaaag 180
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caaaatcctt gacatattgt tgccttgag ggagatggc atttgacga ttgtgtggag 420
tccaaactgg ctaccaaca aaaaaacgca gagccttaat gtagttgctc tcactagtgt 480
taaagcgatg atgaaatcca agcggtaaga tgatcattcc tccttt 526

<210> 4810
<211> 466
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220068d12a1
<400> 4810

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gactcatcag ttaaaagtat gtgattttgg gagtgcaaag atgttgccgc ctggcgaacc 180
caacatatcg tacatatgct cgcgggtatta tagagctcca gaacttatat ttggtgcaac 240
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aggacatcca atgtttcccg gagagagtgg ggttgatcaa ttggtagaga tcattaagat 360
cttggaaca ccgaccagag aagaaataca gtgcatgaat ccaattaca ccgaatttaa 420
gtttctcag ataaaagcac acccatggca taagggtttt cacaag 466

<210> 4811
<211> 470
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220068d12d1
<400> 4811

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 agcagtgaaa tcgaacaatg gaggcaatga ttgccattt ggcaagcatg catttggatc 420
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<210> 4812

<211> 347

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068e01a1

<400> 4812

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 attttggccc ttctgtcaag gatcgaagct aagggaagg ggatcctgct acaccaccag 180
 gtcattgctg agtttgagga aatccctgag gagaacatgc agaagcttac tgatggtgcc 240
 tttggagaag tcttgagatc tacacaggaa gccatagttt tgccaccatg ggttgctctg 300
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<210> 4813

<211> 205

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068e01d1

<400> 4813

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 ttacttacat aacaaaatta tgcccacctc cgattgcaaa acaaaaagcc ggtgccagga 120
 ttttttgaag gaaatattac ccctcagttt actccacaca ctgggggttaa aaacagacgc 180
 ttttgggaga tccctgaaaa ataaa 205

<210> 4814
 <211> 424
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068e02a1

<400> 4814

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tgtattcggc ttccaacaa ggtttggaat gatggctgct caatttaaag cctttataga 180
tgctactgga ggcttatgga gagcacaaca gcttgaggc aagcctgctg gcctattcta 240
cagcaccggt tcacaagggt gtggacaaga gactacagca ctactgcta tcaactcaact 300
ggttcatcat ggaatgatat tcgttccaat cggttacaca ttcggtgccg gcatgtttga 360
gatggagaaa gtgagaagtg gaagtcata tggtgctgga acttacgccg gtgatggctc 420
aaga 424
  
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<210> 4815
 <211> 542
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068e02d1

<400> 4815

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agtactgttt ccgcctaaca ctaaaggact agacacaaac tttcctcatt caacaaattg 120
caacatccac tgcaacatgt aacactcata caaagcattt cctttaccaa gattagaaag 180
aaaaaaaaa tacttgcaag cacaggaaaa aaaaactcaa tatatttcaa gtctaaaaat 240
tggaacaatga ttttcaagca atattgtggt atgggttaat aataatagta tgatctaata 300
tgaaggcaag gcaacattat gcagcttgct tgagcttctt tgtgatgcca gcaatgtact 360
tcctttggtg gaatgcttgt tgtaactcaa gctcactagg ctgtcttgag ccatcaccgg 420
cgtaagttcc agcaccatat ggacttcac ctttcacttt ctccatctca aacattgccg 480
caccgaatgt gtaaccgatt ggaacgaata tcattccatg atgaaccagt gagtgatata 540
  
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gt

542

<210> 4816
<211> 499
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068e03a1

<400> 4816

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tgccattttg cttagagcgc tgaatgtgac tattgatgaa gtttgtgatg ctcttaggga 120
aggcaattgt gatacgttgg ggacggaact tcttgaaagt ttattgaaga tggctccaac 180
taaagatgaa gaatctaagc tgaaggagtt tcaagatgaa tcgcccttca agcttggccc 240
ggctgagaaa tttcttaaag tcgtgcttga tatacctttt gcttttaaga gagtggatgc 300
tatgctctac attgcaaact ttgattctga attagaatac cttaagaagt cctttgaaac 360
tctggagggtg gcctgtgagg aattaaggaa aagccgcatg tttttgaaga tactcgaagc 420
tgttcttaga acaggaaatt cgatgaatgt tgaaccaatc gtggtgatgc taatgcgttc 480
aaactggaca cacttttga 499

<210> 4817
<211> 450
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068e03d1

<400> 4817

ataagaaaaa agcaacttga aaattagcca ttggtcattc gagaatacaa ttctagagaa 60
gcagccaacc tagcacaaac gtataaatga atgcactcag gatatgctct aggcggtaca 120
acatatacag ggttgcacag gcgggaaaaac gagagctatg acagcatgag ctgggcacga 180
ttatcgtagg ggtaaagctg ggttcatggt gcagtgaatg ttgagtgaat atggcccttc 240
acatgataat attgggctga tgaaaatcca agccatgaat gaccaaactat gcccaagcta 300
ctttaacctg gaacatctgg gtcagattgg ctttgagagg ttaatcagat tcagaggaat 360
cagatggctg gttaccaata atgtcaggga aaaagggttg catcatagga tcggcaggca 420

ttacagattg acgggaacca accaacgtgc

450

<210> 4818
<211> 464
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068e05a1

<400> 4818

ctttttcaag aggctgaagc atgtttcaga gtggtggcag ttgcacaagc aacaagaaga 60
gaagaagagt ggaaagaaac aaagctggga gtgcaaggaa tcaacaaccc attaggaata 120
agtgc aaagc ttcattaaaa gctggaagag gaaaatcaca acaggggtct gactctggat 180
cctcacagga atcatcatca tcatcatcat cttctgcagc aacaacaaca accacctcat 240
catcctcatc ctcaaaatct gattctaaat tcaataagac atgttacaga ccaagaagga 300
gaaaaccaag aagaccaaga atctcattct catcctcacc aattccatat ccaattccaa 360
ccttttcatc atcaacaaga acaacaacaa caacaatctt acacagggtt agacacggag 420
atcttaaacc cactccaacc accgaagaaa cggctctggc tacc 464

<210> 4819
<211> 363
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068e05d1

<400> 4819

tttctttctt tttttttttt tttttttttt tttttttttt ttttctttt ttttagcaaa 60
ctagctcttt tattgaattt gcatgtttt caaatcacta caagaaactc gaaactgaag 120
aagttccaag aagacactat tacttaacaa agggaaacat agcactccaa tacagaagaa 180
actaaagaaa catagcactc caattcagaa gaaacaaaag aaacacaata ctcctagtcc 240
taggtaaatt aagcatgaaa aacataagtt gaacattaata agcataacaa accgagggat 300
tgga aaaccc gaatatccac ctcagaattt cttgaattcc cgttgtagct tgaaaatcca 360
ttc 363

<210> 4820
 <211> 520
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220068e06a1

<400> 4820

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cgtcgctctc cgaaccgcca acttcggcgc ctccggtaac cggaaaatcg gccagatccg 120
ccaatggtct ccgattctca cgaatctccg tcccgtttcc ggtcttcgct accgatcgaa 180
tactccgttt agtcctccg gtgtgagagc acagggttgc actctggagg aagcaggaac 240
cggagcaact cagaaagtgg aagcgccggt tgcagtggcg accggagctt ccagaggcat 300
tggcaaagcg attgcactgt cattaggtaa agcagggtgc aaggttctgg tcaactatgc 360
aaggatcatcc aaggaagctg aggaggtttc caaggagatt gaggagtttg gtgggtcaagc 420
tcttacatctt ggtgggatg tttctaacga ggctgatgtg gagtctatga ttaaaactgc 480
agttgatgct nggggaacag ttgatgttat aataaacaat 520
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<210> 4821
 <211> 316
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068e06d1

<400> 4821

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gggccaaaag tgacaggatt gcaaataaaa taaatgccta ttacggtgac aggtccctaa 60
tagcccagat ggaccatgaa gctgcacccc attgctttta ctagctagac atttacagtt 120
tgagccaaaa tggcttgcta actcttttaa ggaaaattcc ataataacat tgcgggggaaa 180
atgggcttaa acgaaactgc tcattaaacg atgtataagc gggcacaaat cctgtaaaaa 240
cgggcaagcc tatggcgcat gggaaaaggg ttgctaattt acatgaccgt gcctccatca 300
tgggggaaaa ctcgcc 316
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<210> 4822
 <211> 476
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220068e07a1

<400> 4822

ctcgagccga ttcggctcga ggttggtgtt cgctctgtgt ctctcactct ctctatattt 60
gcatcattca tcggaaatgg ctctcgaggt tgctgttaag gctgctgttg gggctccaaa 120
tgttctcgga gattgtccat tttcccaaag ggtcctctta actttggagg agaagaaaat 180
cccttacaaa ctccacctca tcgatctcag taacanaccc gaatgggttc tgggtgtgaa 240
tcctgaaggg aaggtgccag tggttctttt tgatggcaaa tgggtggctg attctgatgt 300
aattgtgggg atactagagg aaaagtaccc agaaccctct ctaatcactc ctctgaatt 360
tgctccgtg ggatcaaaga tatttgggtc tttgtgagt tttctgaaga gcacggatac 420
aaacgatgga actgagcaag catcggttgc tgaattgagt gccttggatg aacatc 476

<210> 4823

<211> 456

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068e07d1

<400> 4823

gaataatatt tttttatgat taccttataa caccatcaaa caacatgcca tgactttaat 60
aaaagggtaa cacctctttt aaataataag ggctaaccaa tctaatactg accacgtata 120
catacagttc aatagaactg agatgtaaca atgcctcact atcaataatc tgttcaagcc 180
tgtaccttgg gggccccttc atcacttaca aattccaccg ttggggcttg tggggcacca 240
aatgaatgtg cctagaacat aagcttagtg accacgaggg cctgtgccaa acataccgga 300
acattcccat gtctcgaaat ggcccaatgc tcccacaaga acctacacat gggggggccaa 360
actaagatcc actgaagtga catacctgcc taccatggct gggccacgga ccttgcaatg 420
accactctag gcactcaata caacaaccaa agcttg 456

<210> 4824

<211> 570

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220068e08a1

<400> 4824

tggtatttga aattaacaag tattaagatg tttggaatca tcggaggaaa caagggtcac 60
aagataaagg ggaacttggg gattatgcga aagaatgtgt tggatatcaa cagcattacc 120
agtgttaagg gtgtcatcgg aaccggcatt aacatcattg gaggagtcgt cgacaccgtt 180
actgctttgg cgtcccacat ctccatccag ctcathtagt ccaccaaggc tgatggacat 240
gggaaaggaa aagttggaaa ggctacaaat ttaagaggac aagtgtcgtt accaaccttg 300
ggagctggcg aagatgcata cgatgttcat tttgaatggg acagtgactt cggaattccc 360
ggtgcatttt acattaagaa cttcatgcaa gttgagttct atctcaagtc tctaactctc 420
gaagacattc caaaccacgg aaccattcac ttcgtatgca actcctgggt ttacaactca 480
aaatcctacc attctgatcg cattntctat gccacaatac atatcttcca agcgagacac 540
cggcttcact tgtcaagtca gagaagaaga 570

<210> 4825
<211> 569
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068e08d1

<400> 4825

aaggacaacc cttgctgtaa tggaaatcgt ttacataaga tgatgattta ttctagtttg 60
cactttgcca tgccagctat cattgttgaa acatgcgcga gaacacttaa cagcaattta 120
tacaaacaga atttcttcat taacacttaa cagcaaacac gagaacattc aatcacccca 180
aatacataac ttaaccatac ataggtagat gaaggaatca tattccttct attcactttt 240
attgaaaacc agggaaagta ctgcaacaac catagagccc ctagatggag atactgttgg 300
gaattcctct gaaagtcaat cctcctcac tagaaggata gagcaaagtg taaggcattt 360
tagccggccc actgcggttt ctcaacgtct cgtccttggg cttctgtata agcttttggg 420
caatctcttg aagcttcttt ccaaacctct tgaaggcctc tagtggacca gcatcagaag 480
tccaatagtc accaccatct gtgttcccaa ggtagaactc atcagatgtg tgccttgaca 540

agatttctat agttgcaagg tcaatgagg

569

<210> 4826
<211> 491
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068e09a1

<400> 4826

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tgctgaggcg aatgaagatg cattgaaaga gatagaaaag gcgcattgaga agttttaaag 120
agaggctgac aatggaaaga aagttatgga atctgaactt aactcactta gagagaagat 180
gttagagatt gaaaatgaat cttctttgaa atatgaagaa gttgcttctg aaactgttgg 240
aaaggaagag gctcttacat ctgctatggc tgaaatcaca aatcttaaag aagaaatttt 300
gaccaaattc tctgaaattt cagcaatgga aattcagatc tcaggtttaa aagaaaacct 360
ggacagggag catcacaat ggcggtcaac tcaaaccaat tatgaaagac aaggtgttct 420
gcagtgcgaa actattcacg agttgacaaa aacatctgaa gcactagcct tgctgcaaga 480
ggaggcattt g 491

<210> 4827
<211> 123
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068e09d1

<400> 4827

gtgatgcata tcgctagtgt tgaattacgc ttatacgtta atttaaatta tgccgtttgc 60
aatcacaatt attgaaagtc agattcatga tcagggataa atgattagtg agagcatgtg 120
ttt 123

<210> 4828
<211> 532
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068e10a1

<400> 4828

ctctttcttct cttgcggcta gggtttttagc gcattcttctt ctagatttaa ggaagatggg 60

taaggaaaag gttcacatca gtattgtggt cattggccat gtcgactctg ggaaatccac 120

taccactggt cacctgattt acaagcttgg aagcattgac aagcgtgtta ttgagagggt 180

tgagaaggaa gctgctgaga tgaacaagag gtctttcaag tatgcctggg tgctggacaa 240

acttaaggct gagcgtgaaa gaggaatcac cattgatatt gctttgtgga agtttgaaac 300

aacaaagtat tattgcacag ttattgatgc gcctggacat agggatttca ttaagaatat 360

gattactggg acatcccaag ctgactgtgc tgttcttata attgattcga ccactgggtg 420

ttttgaagct ggtattttcca aggatggaca gactcgtgaa catgctctgc tttcattcac 480

ccttggtgtg aaacagatga tttgctgctg taacataatg gatgctacta ca 532

<210> 4829

<211> 492

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068e10d1

<400> 4829

gaacactaca aatagaaagt tgacatttaa taaaccaaag caacacaacg cagcaaagtc 60

ctgaaactcg ctgcgcttaa caaaaatgta atcagggggt cgcacaaaca cagcacatta 120

aaacacagat aaataaaagc aattttgcc aacgtcgatca agaaccagtc tctgggaaca 180

acagttgcga gatgatggtg gagacttcaa actttgtccg aaaaacaagc tacctagaaa 240

agaagacaca agagtacaga agagaaacca acattttattg taaccaacat cccctgatga 300

accagcccg acgattcact tcttcttctg ggcagccttg gtgaccttgg ctccggtagg 360

atccttcttc tcaacgttct tgatgactcc cacagcaaca gtttgacgca tgtccctaac 420

agcaaacctt ccaagtggag gatactcgga gaaagtttta acaaccatgg gtttggttgg 480

aatcatctta ac 492

<210> 4830

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220068e11a1

<400> 4830

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accatgacca tggccatggc cacgacctg ctctgttca cggctcttcgc ggtttcatcg 120
gccctagaca tgtcgataat ctctgacgac aacgcccacg ccgccacgtc ggcagcgcac 180
gaggagctga tgtccatgta cgagcagtgg ctagtaaagc acggcaaggt gtacaacgcg 240
ctcggagaga aggagaagag gttccagatc ttcaaggaca acctgcgatt catcgacgac 300
cacaactccc aagaggaccg aacctacaag ctcggaactga accggttcgc ggatctcacc 360
aacgaggagt acaggggcaa gtacttggga accaagatcg atcccaaccg gaggtctggc 420
angaccccg gcaaccgata cgcgccacgt gtcggcgaca tactacctga atcggtgat 480
tgg 483

<210> 4831
<211> 457
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068e11d1

<400> 4831

aacagcaatc aaatatgttc gccatttggga attggaattt gaatacaaat acagtgcac 60
aataatataa ccctatgtac acagccaata tctgactgaa atttgataca gaatagtatc 120
aattcgtatc ataataaaat ggcacagaga aatttatgtg aaggtaaagg ggaagtgtat 180
cagctggtgt ttttaattctt cgtctttcat ttacttcac 240
gcacatttcc tttatctgct taagcactga tgaccttggc cttacgccca aaggtccaat 300
ggggttttagc cggagtacgc ctcaatgcct tcaactccgaa tgggttggc ttgctcttga 360
gacaagttcc agcataagtg ttgcagatgg gatagtcgat agggcagcaa ctgtagtggt 420
catcacagca ggtagcacc ttaagaggac agcagcc 457

<210> 4832
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220068e12a1

<400> 4832

tggccacctc tgctattcag caatcagcat tcgcaggcca aactgctctg aagcagctca 60
atgagttggt ccgcaagacc ggtggcgccg gcaaaggctg caccaacatg cgccgtaccg 120
tcaagagtgc tcctcagagc atttggtatg gccctgatcg tcccaagtac ctgggtccat 180
tctcagagca gattccgtca tacctgaccg gagaattccc cggtgactac ggatgggaca 240
ctgctggact atcagctgac ccggaaacct tcgccaggaa ccgggagctg gaggtgattc 300
acagcagatg ggccatgctt ggtgcacttg gctgcacctt ccagagatc cttgagaaga 360
atggtgtgaa attcggcgag gccgtgtggt tcaaggctgg ttcacagatc ttctcgagg 420
gaggacttga ctacttgngc aaccataacc tgatccatgc tcaaagcatc cttgccatct 480
ggggctgtca ngctgcgctc atgggttttg ttgaggctac agagt 525

<210> 4833
<211> 548
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220068e12d1

<400> 4833

agggacagaa atttctaata tatataatat aatggttctc atacagattc ttctggtaca 60
caggtgtagg tacattagag aaaatgggag cagaagattg cattgaattg caatgctcat 120
tgtccaggga caaagttagt ggcataagcc caagcattgt tggcaacagg atcagcaaca 180
tggctgtaaa ggttctgaat agggcccttg ccagtgacaa tggcctgaac aaagaaacca 240
aacatggaga acatagccaa gcgaccgttc ttgagttcct tgaccttcaa ctcagcgaat 300
gcatcagggt catcagccag accaagaggg tcaaatgcac caccagggtg gatagggtca 360
agtccttcac caaggggtcc tccaccaact ctgtaacctt caacaaaacc catgagcaca 420
acctgaacag ccagatggc aaggatgctt tgagcatgga tcaggtttgg gttgccaag 480
tagtcaagtc ctgcctccga gaagatctgt gaaccagcct tgaaccacac ggnctcggcg 540
aatattaca 548

<210> 4834
 <211> 452
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220068f01a1

 <400> 4834

 ggccaagtta tggcaggtac ctgagacact gctggatgag gtgcttggtta agatgagtgc 60
 accacccaag agtgacatcc cactcattac cccaatgaa ctatccgggg ctgatggatt 120
 agaattccgc tttccaacag ggattggaat gatggctgct cagattaaag cctttctaga 180
 tgctactgga ggcttatgga gagcacaaca acttgcaggc aagcctgctg gcctcttcta 240
 cagcaccggt tcacaggggtg gtggacaaga gactacagct ctactgcta tcaactcaact 300
 gggtcacat ggaatgatat tcgtttcaat cggttacaca ttccgagccg gcgtgtttga 360
 gatggagaaa gtgaaagggtg gaaattcata tggagctgga acttacgacg gtgatggctt 420
 aagacagcca agtgagcttg agatacaaca ag 452

<210> 4835
 <211> 487
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220068f01d1

 <400> 4835

 actcaaactg gtcgttgcaa tgtttatgtg cttaacgggg caatacaaaa gataggaaca 60
 agtactgttt ccgcctaaca cttaaaggact agacacaaac tttcctcatt caacaaattg 120
 caacatccac tgcaacatgt aacactcata caaagcattt cctttaccaa gattagaaag 180
 aaaaaaaaaa tacttgcaag cacaggaaaa aaaaactcaa tatatttcaa gtctaaaaat 240
 tggacaatga ttttcaagca atattgtggt atgggttaat aataatagta tgatctaata 300
 tgaaggcaag gcaacattat gcagcttgct tgagcttctt tgtgatgcca gcaatgtact 360
 tcccttggtg gaatgcttgt tgtaactcaa gctcacttgg ctgtcttgag ccatcaccgg 420
 cgtaagttcc agcaccatat ggacttccac ctttcacttt ctccatctca aacatgccgg 480
 caccgaa 487

<210> 4836
<211> 536
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068f02a1

<400> 4836

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gctctctctt catcatcatt ggctggccaa gctatcaagc ttgccccctc caccctcag 120
cttgggtgttg gaaggggttag catgaggaaa acagcctcca agactgtttc ttctggaagc 180
ccatggtagc gccagaccg tgtcaagtac ttggggccat tctctggtga gcccccatcc 240
tacctcactg gtgaattccc aggtgactat ggttgggaca ctgctgggct ttctgctgac 300
ccagagacct ttgccaagaa ccgtgaactt gaagttatcc actccagatg ggccatgttg 360
ggagccctgg gctgtgtttt ccctgaactc ttggcccgca acggtgtcaa gttcggtgaa 420
gccgtgtggt tcaaggccgg gtctcaaata tttagtgagg gtgggcttga ctacttgggc 480
aaccaagcc tgatccatgc acaaagcatc cttgccatct gggccactca agttat 536

<210> 4837
<211> 555
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068f02d1

<400> 4837

aatccaatta atgcgtataa ttaataatat aatgcgctct tgttggtatt gcagctctac 60
cacatctacc gaaatatata aagtgcacat acactacaaa actaaataaa gatctcaatg 120
cacaataaga tatataattc atattcttct taaaagaaaa cattcaatat gtatttctcc 180
aaataacaat gaaactctca ctctaatttt caagtcactg tgtttctctt tgtttcacta 240
ttgctatgct cactttccgg ggacaaagtt tgtagcatag gccaggcat tattgtttac 300
cgggtcagct aggtgatcag caaggttttc caaaggctcc tttctgtca caatggcctg 360
aacaagaaa ccaaacatgg agaacatggc caacctacca ttcttgagct ctttcacctt 420
caactcagca aaagcctctg ggtcatcagc aaggcccaat gggtaaagc tgccacctgg 480

gtagattggg tcagtcactt caccgagagg cccaccagca atacggtagc cctcaacagc 540
 acccatcaag ataac 555

<210> 4838
 <211> 470
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220068f03a1

<400> 4838

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 gttaccaaca acaacgagga agacaagaag ccaaccgaac agggagcaca catcaacctt 120
 aaggttaagg ggcaggatgg gaatgaagtt tttttcagga tcaagagaag cactcaattg 180
 aagaagctta tgaatgctta ctgtgaccga cagtcggtgg atttcaactc cattgctttt 240
 ctgtttgatg gacgccgcct ccgagctgag cagactccag atgagttgga aatggaggac 300
 ggggacgaga ttgatgccat gcttcatcag acaggagggt ctggtgtctg aaggatgtga 360
 ttacctttgc tcttcattat aagtaggaat tagttaactt agagctatgt atggcataag 420
 atacatattt tattatctgc tattatatac agcttttgcc ggtggatttt 470

<210> 4839
 <211> 264
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220068f03d1

<400> 4839

aagagaagaa ataaaaaggt aaccggaaac tgcgaggaat attaattcca atagttcata 60
 aaataaattc ctctaggatt ccaacctaaa atggctacaa ttgccatttt ggagccatga 120
 gttcgaaccc tatgatcaga cgccactagc atataatcgg gtccattcct tcgcagtttc 180
 gacagcctca ggctgattag attgccaatg ctaggcaatg ggctcagaaa gcggatcatg 240
 tgggataggt gcacaaaata gagc 264

<210> 4840
 <211> 112

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068f05a1
 <400> 4840
 ttttagctat atatttttct ttgtaaaccg cgtaaattgt gcactatgtg ccaagggctcg 60
 aatcgatccc ttcataaaac gccggaactg actacctaata tcgggtgccg tt 112

<210> 4841
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068f06a1
 <400> 4841
 gcttgtgaat cagcaccaca ttcacctgag ctttttgtga ggattccaaa gcatggcttc 60
 ccttgagca tccactgctg ctgcttcct tggcatgtca gaaatgcttg gaaaccccat 120
 caacctcagt ggtgccacaa ggccagctcc atctgcctct agccctgcct ccttcaagac 180
 tgtggctctt ttctccaaaa agaaggctgc acctccaaaa aaagctgcag ctgctgctcc 240
 tgccaatgat gagcttgcca agtggtatgg tcctgacaga aggatcttct tgcctgaggg 300
 tctcttgac cgatctgaga tcccagagta cttgaccgga gaagtccccg gagactatgg 360
 ttatgacca tttggtctta gcacgaagcc agaagatttt tccaaatatc aggcatttga 420
 attgattcac gccagatggg caatgcttgg tgctgctgga ttcattcatt cccagggcctt 480
 caacaaatat ggagcaaa 498

<210> 4842
 <211> 549
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068f06d1
 <400> 4842
 ccaaggaaca aagccaaatg ccttaatatc tcagtatat gtattgtaca ttaagtaaga 60
 ttggagaaaa acatgaagat gaatgattta gagagttgga gctctctcag cagatccaga 120
 aatgacagtg agcaagttgt tgccaaaagg gtcactgaga tgttttgcaa gggtctcaac 180

aggaccttct ccagtgcacat aagcttggaa gtagaaacca agcatggcaa acatagcaag 240
tcttccattt ttaatttcct tcaccttag cagtgcagct tggctcggat catttgcaag 300
ccccaatggg tcaaattggac cacctggatg aagtttgtct tcgaaattca ggccattaat 360
aattctgtag tactctgcac ctcccacaag aacaatctca gcaatgacag ccacaataag 420
attgatgggg atgggtttcc cgaagtagtt caaggtaccc ccatcaagaa gcagagctcc 480
agtcttgaac caaacagcct taggaccgca gtttgctcca tgattgttga ggcctcggga 540
atgatgaat 549

<210> 4843
<211> 524
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220068f07a1

<400> 4843

aggaacagca tgtggccaaa acattataag actatatggc cgaaaagctt ggcatagaga 60
aaagcaaaat tgatgacttg tccaacctcc tctacaagaa ctatggaaca actatggctg 120
gtttaagggc aattggatat gactttgact acgatgaata tcacagtttt gttcatggga 180
gattacctta tgagaatttg aaaccagacc cagctctgag gaacctcttg ctgagcctac 240
cctataggag actgatcttc acaaactcag acaaagtcca tgcagttaag gcactaagca 300
ggctaggatt agaagactgc tttgaaggaa tcatatgctt tgagaccctt aatcccatcc 360
acaaaagcac tgtctctgat gatgaagatg acattgaatt tgtggggggg tcaggcacia 420
ccaatccaac cacataaaaa gatgctagca gctntcaaatt ctttgacatc attggccatt 480
ttgctcaacc caatccccac acagttttgc caaagacacc catt 524

<210> 4844
<211> 372
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068f07d1

<400> 4844

gaccatcaat gatctaagcc gtcacagatg tctccacagc acgcttgcca ggatctgccc 60
 cttctgatat tatgtcatct ctccatagtc atggctctgg ctctctaatag ttgcggatgc 120
 tacctgatgc ataatcatgc tctgtactt ctatgagatt ttcctaccag ctacagggga 180
 agaccacac gtacatcagc ttgtgtgtgg cggaccctat ccttaaagaa cataggtctt 240
 tgcggagtaa cgttggatct cttgagggcc aactcagtgg catttaccga gggttagcag 300
 atcatcgctg tctttgcaa aactgtgaca tgattggacc tgagcacaat ggccaatgca 360
 tgcaaacatt tg 372

<210> 4845
 <211> 521
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068f08a1

<400> 4845

ctcgcaagca aaaagaaaga atcccaggcg aggagaaaga tggaggggaa ggagcaggat 60
 gtgtcgttgg gagcgaacaa gttccccgag agacagccga ttgggacggc ggcgcagagc 120
 caagacgacg gcaaggacta ccaggagccg gcgccggcgc cgctgggtga cccgacggag 180
 ttacgtcat ggtcgtttta cagagcaggg atagcagagt ttgtggccac ttttctgttt 240
 ctctacatca ccgtcttaac cgttatggga gtcgccgggg ctaagtctaa gtgtagtacc 300
 gttgggattc aaggaatcgc ttgggccttc ggtggcatga tcttcgcctt cgtttactgc 360
 accgctggca tctcaggggg acacataaac ccggcgggtga catttgggct gtttttggcg 420
 aagaagttgt cgttgcccag ggcgattttc tacatcgtga tgcaatgctt ggggtgctatt 480
 tgtgggcgct ggcgtgtgac ggtttcgagg ggaacaacaa t 521

<210> 4846
 <211> 488
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068f08d1

<400> 4846

cggcctgtcg tttttttttt accaacaacaa tatgacattc attccattta agatgggtca 60

tcagacattc attacacatg acatgggcct attgcaactt acaagcagag gataacattg 120
 gcccatgacg cgacacatgc accacctaata aatcataatt ttacatcttt acatacaaaa 180
 tacaaagact ttaaatttta aaaagaagaa aagagataaa cagatcatct taatgaaatg 240
 aaacccaaaac ccacaaacat tggtcttgatt tttgttggtg ttgttggtcc caacttgatt 300
 aagcatgaac cgtttgattg aatcacttgg acttgaaggg aatggccctg attacgacct 360
 ggtggtagag tgctgcaaga gctgcaccga tgaatggtcc caccagaag atccagtgtt 420
 catcccaacc aaggtccttg ttgaagatga tagcagcacc aagactacga gcagggttga 480
 taccagtt 488

<210> 4847
 <211> 507
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068f09a1
 <400> 4847

ggtcctttct ctaatccaaa tatctctccg ttaatgctct caccacaaac ttcaatagac 60
 tagccaaaag ctaacaccaa ctataggcca aatcaccaat aaatattatt tcccgttctt 120
 ttggcgtgtt ggccaccac tgaacacatt tgcactcaca catagaagca gagagaggcc 180
 attggttggt ttcagagatg ggaagcatgc acatagaaac ccagaaact tttgctgatg 240
 gtagcaaaaa cttcgatgat gatggacgag ctaaaagaac tgggacttgg attactgcaa 300
 gtgctcatat cataacggct gtgattggtt ctggagtgtt atctcttgca tgggcaattg 360
 cacagatggg ttgggtagct ggtcctgcag tgctctttgt cttctctttg ataacatact 420
 tcaccttcac tcttctcgct gactgttacc gttcacctga ccctgtacat ggcaagcgaa 480
 actacacata ttctgagggt gtcaaag 507

<210> 4848
 <211> 542
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068f09d1
 <400> 4848

aacatagcaa actaaacatt ttattatatt acttttagtat aacaagttgt ctcgatttcg 60
 agaattgaaa atataacaac tattttcaaaa catagtaata caaattttgt cgccctcaat 120
 agaaactctt ggctcaagtt ggaatactaa gtatgaaagt tctattgttc tgcttggaag 180
 ggcttgtatt tcttgatact aaccgaaagg ccttggaagg aaccacaag tgagataata 240
 gaaatgatca agcaaaccga actcaatatac ttgagccaag tccagggtgaa ggaaaatctt 300
 tgcataatttg acttcttaat gtacatctct atagggaagt aaaccgtcaa tggccagaaa 360
 gagagtgcac caataagggc caaaaagtca ttgaagaatg ggagtaacat agctacaacg 420
 gcagtataaa tcacatatgc aggccttcac actaccctaa agaagttcac attggagctt 480
 tcacatagag gaatgttcaa agtatgctcg gcatttataa attggctttc tgtccatttt 540
 ct 542

<210> 4849
 <211> 586
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068f10a1
 <400> 4849

catccagaaa gctaaatgac ctaagcaaga gacgatcaga agaaaccatg agaatgaaag 60
 agatcatttc taaggaggag aaggcaaaag aattagcaaa actagaaaga gagaaatatac 120
 aagatgcatc acgagaagct gaatatttga aagaatgtgc tgaaagagaa gcggcagata 180
 agaaagaaat ggagttgaga gccattcgtg ctgcaaaaga gaaagaaaag ctggaggatg 240
 ctctcagtgg ttccacgccc cagtaccgga agtttacatg ggatgaaata atcttagcta 300
 cttcatcttt ctctgaagat ctgaaaattg gaatgggagc gtacggagta gtatacaagt 360
 gcaatttgta tcacacaact gttgctgtga aagttctcac tctcaacact aacgtaaaca 420
 gcaaaagaca gcaattccag caggagttag agattatgag cagaattcgt catccaaact 480
 tgcttcttct tcttggtgca tgtccggatc atggatgcct tgagtatgac tatatggaga 540
 atgctacttg gaggacagac tactacgaaa aaccacactt ccccaa 586

<210> 4850
 <211> 519
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068f10d1

<400> 4850

ctaaaactaa ggtatgtatt caggaggata tatcattcat aaataaaaga gtacacatga 60
atgtttatac attagctagc cttgaatgta tacatggttc ttattttatt tatagtaaga 120
acaagatttg acatatgtat gtatacacag aatcagacaa tagaatcaaa tttatctaca 180
cttgaaatcg ctctacctaa attaaccaga cagcatgctt ggaatggtag aactacgaaa 240
aaaatctgca tccaagacac tgctaaaggt cataccacc aaactttcta gccactctct 300
acatcagaga aatcattggc ctcaatatta acatggagaa agataatgct gatcacga 360
ttctctggac ttccactcca aaattgctga gagcagtgtg taattaggaa ttaaattgctt 420
atgaggtaaa gccatgttcg tcattgggtga tttgtcgttc tcttcaagcc acttttcaaa 480
ttgctttgag atcatatgta tatccatcag cagcaaac 519

<210> 4851

<211> 528

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068f11a1

<400> 4851

tgctctatct tgatctagcg tgatttattc ccggatcgac gcgcttcggc tcgagaaaca 60
attctaacat acttttcttt cttttttttc ccctctttaa aagtctggct tttggctcctt 120
tgattcccaa cttcacttgt cacatatcat attatgaagc tcacagggtt cctgcaagcg 180
gtgactcttg ctttggtgtt agccaccgtc tctgcatcag atcctgatcc tcttcaagac 240
ctctgtgtcg cagaccttgc ttcagcgggt aaagtgaatg gattcacatg caaagatgct 300
gccaaggtaa atgcgagtga tttcttctca gacatactag ccaaaccagg tgccacaaac 360
aacacctatg gctccctagt gactggagcc aacgttcaga aaatcccagg actcaacacc 420
cttggcgtgt ctttatcacg cattgactat gcccagggtg gcatcaacc acctcacag 480
caccacgtg ccaccgaggt agtgtttgtg cttgagggtg actagatg 528

<210> 4852

<211> 423
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068f11d1

<400> 4852

atactctaatt tccaaaactt tgaatttatg agtgcccaac caacatgaat tgtaaagcaa 60
caggaaccag gacaagagag gaagggtgtt gatgtaacaa cagagagaga gacattacaa 120
ccacgtccca cattaactat taataatccc ttaggagcaa gcctagactt gatgggtcttc 180
aacctccttg gttcccaact ggaacgcctt ggtataacac attgtctgga accggaggtg 240
atcctgcaaa caacgttaga gcaatggact gagtgccaag caattgactg atgaatgctg 300
caattactga agcttgctac ttgacattgg ccttttgga gtgaaccaac ccttttgga 360
acacaaatat tatagccttg cttatgctct ttgatatgat cgcgagggt gaggatatga 420
acc 423

<210> 4853
<211> 491
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068f12a1

<400> 4853

gaagaactgt taaaacatcg catgcttaag ttcagaaaga ttggtggatt ccaggaagggt 60
attcctatag atcctaagag aaaagccaac atgaagaaga gggatctatc tattgctaag 120
atttctgatg ctgaactaga agttgaggtt gagaaactga agcaacagggt tttggaagct 180
aaggaatctt ctctgttcc tgcaaaacta gatctggatg agatgctaaa gcaactgaca 240
agggaggttg atctagaata ctctgaggca gctaaagcca cgggcttgac agacagtttg 300
ttgaaactaa gggaggaagt ttcaaaagca aatgcagata atcaaattgc tgatccattg 360
ctgaaggata agatagaaaa gctaaggttg gagtttgaac agcaactgcg tgcagctccc 420
aattatggca ggctgcagaa taagtctacc tatctgagcg aattatgtaa agttaagctt 480
ctggcagatg c 491

<210> 4854

<211> 449
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068f12d1

<400> 4854

acttacagca ccaagcgtcg ttgaatgact cggaacgtct acctgaaact aattatacac 60
tgtatagata aagatattga gggagaaacc gaacatttga agatgagtaa ccaagagcat 120
aatgatcatg aaaagaaaag aacataagat gacatcctaa acataactgc cacattgtga 180
ctcacacaca tacagaaggg tattcaatgc tagaccccg c tactgggcct ttattggcag 240
agtattgact gcacattggc caccattaac accgaatgtg cttaaaatga ccaaacatgc 300
atctaagaag tatggcgatt ataatactag aggatgatct aaatctagag tcaccaatcc 360
tactgtatgg ttctgaatca tgcgtctctc cagccttagg aaccttcaat ttcaattgca 420
tggcctagct cttaatatca tgcgatgag 449

<210> 4855
<211> 306
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068g01a1

<400> 4855

gggtgcctaa gattttttat gttaaatgct acatggcaca ataggaaagg gcaaatagaga 60
atataattat ttgaggttcc ggtggccaag tttgaaccac cattacaaaa gcatagaagg 120
agggtgttca ttgtaaaaat tgtaatttat acatttgttg tgaaagcgac ctctgcaaaa 180
tcttttgagt ctgaacctca agcttttgat ccaaaaagca ttctggactc tgtcaagaat 240
tccgtggatg ctttctacag gttattcaga cctcacacag ttattggcac agtaataagc 300
ataatt 306

<210> 4856
<211> 435
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068g01d1

<400> 4856

accattaaaa caaaaaacag tactcatcaa aaacaaacag cagtgaaaat tgaccaccgc 60
cgatcaagaa cctagttttg aaagttacgg ctacatgaaa tcggcagaaa cttaaaaata 120
taacttaaac aaaacaccta agactctgca aggataaaac tactataaag gagtaaccac 180
gatgatgatc acatgtgcta gcaaaattgc ccaaagtgcaa tcactttcttc ttggcagcgg 240
ccttggtgac cttggctcgg gtgggggtctt tcttctcaac actcttgatg actccgacag 300
ccacagtttg acgcatgtcc ctcacagcaa aacgaccaag gggaggatac tcagagaaaag 360
tttcaaccac catgggcttg gttggaatca tcttaaccat acctgcatca ccattcttca 420
aaatttgggc tcttc 435

<210> 4857

<211> 485

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068g02a1

<400> 4857

atcagatggt catgctcctt ctttcattaa attaacggta gagatcccat aaacaagtca 60
atTTTTTTTgg agcaggaaga gatTTTTTTT tcttttcaat tcgaattatt cattatctat 120
gaaaagccct tgacttgtgc ataccaaatt caaaaattgc tatgtgatat cgacatttct 180
ggctagtggc tacaaaatct ctgtaccaat ttatgaacag attctaggta tggaaactct 240
atcatatggg tcagcaccat gctgccaaagc tgtgaactca cagtgggaagt cacatgaaaa 300
gagtttgagt ctacgtcaat cacagagttt cctctatagg aaaacttgga gtttattaca 360
catgaactat ttctgcatgt gcgcctgtga gatTTTtatga gatgggtact aggggtgcagc 420
taagaatctc aaagagattc aatttcaagg attgtagagg aagttctgat gatggatatg 480
tgatt 485

<210> 4858

<211> 501

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068g02d1

<400> 4858

aacataaatc atcttctgag taatagttgt tctactagcat gctctcttgg tgagtaatta 60
taggtatatt atatatacaa gattttacct atgattctaa agcatttgtg catgacttct 120
ctttatacaa actatgacag agatgacagg ctacaacgtt gatttagtat tgaagatgcc 180
atatgattca ccctgtcatt gatgtttggc tgccagaata ttactgaact tggattgaga 240
tctgatgaaa gatcttatcc tgtcccaaag tgagaaattg gaagcgaaat atctgaccat 300
cactgacttt ttcgaacctt gtctgggaaa ctctaaatcc ctgtcaataa tagaatgctt 360
tatactgtct agatcttcaa gcattggtaa tgacacataa ccctgagact ctagggttct 420
gatgcacccg cgacgtaaga aatttatgat ctacgaact tcatcatgag ggcagtgacc 480
aacatggctg attcgatata t 501

<210> 4859

<211> 501

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068g03a1

<400> 4859

gagaaagtgg catcgcttag gtacagatac agacacaacc tggtaaaaat cccgacccca 60
gtgccgcaca attttccttc actcgcagcg gaggtttact tttgatctag tacctgctat 120
ccctatgtat aagcatggac ttctagcata ctattgtttg attaaccaag ttcttccata 180
ttggttgagg aagcctcgag tcaatattta gtttttgctg ccactctgtg gtttctgatg 240
gatgatgccg ggcacgtga aaatggaagg cacaagcag cagatcaata taaatctgct 300
cagggacagt ggttgatgca acatcagcct tccatgaagc agattatggc aattatggct 360
gaaagagatg tagccattca agaaagaaat ctggccattt ccgagaaaaa agcagcatat 420
gctgagcgcg atatggcatt catgcagcga gatgctgcaa ttgctgaacg taataatgca 480
attttgaac gagataatgc a 501

<210> 4860

<211> 450

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068g03d1

<400> 4860

gaaacaagga aaaaattaac atacatagtt gattttacat attaccgcat agagggtcca 60
ggatgactga ggacacgagt ctacaattat tcagggttaa ggactacatg cattaaccca 120
gactatctaa caagtattta tccatcccat catgcacact ttctatccat gccattggcg 180
ccatcaaacc atctaagaaa attaagtgcg tacaaatgac caacgaggat gactttaaca 240
ccaggcttat gcacctaata tatagcaggg gcatactcta atcattacct ttcccagatg 300
acctttacac ttacattatt tctctcattc gacttgagaa tccataattg atcgctaaaa 360
gctgactcta ttcatgtaat gctgccccac aaacaatttc tcatgctgta ctttattgtg 420
atgtaacggt tcgttccatg ttttgcccaa 450

<210> 4861

<211> 274

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068g04a1

<400> 4861

taattctaca aggcatactt cttgtcacat aaagactcgt cattatttat gttgttagaa 60
attattattg tgtacaagta caactacaca tcgtgaaagt gattcaaaag tttgctgttt 120
ttcttttagtt tggaaaaaaa aaactgtgct ctatgtattt tagatcttga gaaatttcag 180
ataaactcgt ttgtaaacca ttttataata atagagaaat gtttgcttat tatcatccca 240
aaaaaaaaa aaaaataaaa aaaaaaaaaa tagg 274

<210> 4862

<211> 241

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068g04d1

<400> 4862

gatgataata agcaaacatt tctctattat tataaaatgg ttacaaacc agtttatctg 60
aaatttctca agatctaaaa tacatagagc ccagatTTTT tttccaaac taaagaaaat 120

cagcatactt ttgaatccct ttcacgatgt gtagtagtcc ttgtacacaa taaacatttt 180
 taacacccta aaaaatgacg aggtcttttt gggcaaggaa aaatccctgg aataataact 240
 a 241

<210> 4863
 <211> 478
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068g05a1

<400> 4863

agcggacata ctagaccgtt atggtaaacc actatccttg tcgcaaattg tggagaacat 60
 agaagacgca ccctccccag atgcctctct tctccagaga gtcttgagag tgatggtgcg 120
 cagaaagatc ttcagtgcac aagaatcaga gacaggagaa accctcttcg gcttgacacg 180
 agcctcgaag tggatccttc gcgacacgaa aatgacccta gcacccatgt tgctgctgga 240
 gaaccacca attcacctga accctgcgca ctacatcagt gagattatta gagaaggcac 300
 aaaaaatggc actgctttct ttaagtgcc tggacatgag caatttgaga tgacgggttt 360
 ggatcctgag tataataggt tgttcaatga gggcatggtg tgcactgcta gggttgtgtc 420
 caaagctgtg atcactggct acaaagatgg gttcaaccag attaagtcct tggttgat 478

<210> 4864
 <211> 479
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068g05d1

<400> 4864

aacaccaaag gatctgattc attaaaagca atagattctt cacaaccaca caccactcac 60
 ttgacatata tggaacacat acataatcca tatagcatta cttaggggtg gggcatttct 120
 tactttaatt taatgcccac acataacaag ggcaggaagg aaaaccacaa aattaaaacg 180
 aagatcatat agctgttaat aataacaaca acacatgcaa cataaaaacc acatgcagtt 240
 gtggtagtgg catcttcttc aaattggaaa cgcctcaatg atggaaggga gagcgttgat 300
 cttgatgatg ttgtaacgag cgaaaccggt ttccttgaac agccacttcc agttctcttc 360

ggacctctct ttgccaccgg cgttgtgagc gagaagcatc atgtcgaatg cgatgccaac 420
 gtttgtgaag agttcgttgc cttggggtcg aagaacgtga tccacgatta tgacttttc 479

<210> 4865
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220068g06a1

<400> 4865

ccatctttgc cttctgcatg ttggttctct gtaaacagat actgcaaaag aagaataata 60
 ttgaatattt ggttgggttg aatccctggg ttgaagcgtt gcagacatca cggctattct 120
 aagagtgtct cgctctctca ttcattgtccc aactgtacga cggaggacag gttgcgtaac 180
 tgccaccaac ccttcgccgc acggtgggcg tgggtgcttg ccttctgaag gtggtagccc 240
 ttcagacttg ctcttcttag ctggtgggtg ttctgctgtc ttctagcttc ttcttaactc 300
 ttttttcttt ttactacttt taagctacct tgttttcaaa ataacaaaaa caaacacttt 360
 cttacttcat aagatcacct tttcttcac ttctacttct ccttcactaa aatgatgtct 420
 aaaatcaaga gggttccac tgtcgtttcc aacttccaaa aagacgacgc tgcagactct 480
 cctcgtcccg tcggagggtg tggtcggaat tgccttaaag cttgttgca 529

<210> 4866
 <211> 509
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220068g06d1

<400> 4866

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 gtcaagtcaa gcattatgat acatcagacc ccaaaatacc aacaacacta ctcagctgag 120
 cagttattat atcgtacttt cacatgaaag tgcataaag gcagataaaa gcatatacat 180
 tcaacacaca cgaccataag gctcaagcac aaggcaatag tatgacttaa acggtgacac 240
 atttcagcaa ttattcttaa aactctgcag attttctgaa tttgttcaaa atacaagagc 300
 cttgttactg tagaaccaca cattcttgtg aaccagccac caccaccaca gtaggggtgtt 360

cgcttgtgct gactgcatca acttcttttt tgacactttg aacattgaca tcctccaatt 420
 caccacagcc aatggcttca aaaacaagat cattgacttc ttgaaacctc tcttgagaaa 480
 gggacacctc agcaagaagc ctccaagca 509

<210> 4867
 <211> 601
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220068g07a1

<400> 4867

aaacaaagaa gtgaaaataa cagcaaaaag tagcagctgc tgcagctccc ccgaagctta 60
 tctcagcagc agatactcaa ccctgtttga gtagccgaga ataacaccaa tgggagagga 120
 ggaaaagaaa ccagaggaac aaccaaggc agaggagaaa aaaccagagg aagagaagaa 180
 gaaagaagaa gcagcagcag cggaaaaacc aagcgaagag aaaaaaccgg aacaagagtc 240
 gaaagaggaa gttgctgctc cgccaccgc accgccaccg gccgagattg tgctcaaagt 300
 gttcatgcat tgcgagggtt gcgctcgcaa ggttcgtcgc tccctcaaag gattcccagg 360
 tgtcgacgat gttgtcaccg attgcaaadc tcacaagggtg gtcgttaagg gagagaaagc 420
 ggatccgttg aagggttttg agagaatata gaggaagagt cacagacagg tcgagcttct 480
 ttctccgatc ccgaaaccgc angaggagaa gaagggtccan gaggaagaaa agcccaagcc 540
 cacaccgaa gagaagacag aagaggctca gattgtgatg acggttctga aagtggcatg 600
 c 601

<210> 4868
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068g07d1

<400> 4868

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 actttgctgg atcgtacacc cccttcacgc tcacttgtga gttctgcaga tcgggttctg 120
 ctgattccac tcccttcatt ctctgtatgc gtctcttgat ttcttgagag caagcttcgc 180

agtgcatgcc aactttcaga accgtcatca caatctgagc ctcttctttc ttctcttcgg 240
 gtgtgggctt gggcttttct tcctcttgga ccttcttctc ctcttgcggt ttcgggatcg 300
 gagaaagaag ctcgacctgt ctgtgactct tcctctgtat tctctccaaa accttcaacg 360
 gatcccggtt tctctccctt aacgaccacc ttgtgagatt tgcaatcggt gacaaca 417

<210> 4869
 <211> 100
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068g08a1

<400> 4869

ctcgagccga atcggctcga gcgcttagat atactctggt atcatcaggt gttttctcca 60
 ggggtacaagg agatgatttt cttggattca gcccataca 100

<210> 4870
 <211> 215
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068g08d1

<400> 4870

agttattggt tactctaagg aaatctagaa atcttacctt attataggaa tgaagatgac 60
 tagagaaata tttgtatttt atgtgtacaa aagaaaaaca gatgagacga ttaaagaatt 120
 actgcatgac tagccagaat gggcagaaag catgggggcta caaaatggac ctacaacatc 180
 tggccaagc ccaagcttta tgcaaaaggc cgaag 215

<210> 4871
 <211> 600
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068g09a1

<400> 4871

aaagggtcaa gagatgaggt tgatgagtct ggtaagtgtt tgagttggtt ggacaagcag 60
 ccaccttggt cagtgttgta tgtttctttt ggaagtgggtg gaacactctc tcagaaccaa 120

atcaatgagt tagcctcggg tttggaattg agtgggtcaaa gggtcttggtg gggttttgaga 180
gcaccaagta attcagttaa tgctgcttac cttgaggctg aaaaggagga ccctttgaaa 240
tttttaccaa gtgggttttt agaaaggaca aaggagaaag gtttggttgt gccatcatgg 300
gcacctcagg ttcaggttct tagtcacaat tcagttggag gggtcctgag ccattgtggt 360
tggaactcga cattggagag tgtgcaagag ggagtgccta taatagcatg gccactcttt 420
gctgagcaga gaatgaatgc agttatgtta accgatggac ttaaagtggc gttgaggaca 480
aaatttaacg gtgatggcat agtggagaag gaggaaattg cgagggtgat acagtggctg 540
atggaagggtg aagaaggtaa aggatgcttg aagaatgatg aatttaaaga ttctcttgta 600

<210> 4872
<211> 273
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068g09d1

<400> 4872

gaaaaccatt tggaaaaaat tttattaatg tattcctaaa gcaagttgta atacacgagt 60
gtatactgtc acgaaatttt tggcagacta aactagtcac gactttttacg gggaagctaa 120
tccatctcta cagaaacaga ggtaccttaa tcatccaact ctgccatttg gggagcattt 180
aaaggcaaaa actggttacc agagaaggct taaaggttac caattgcaaa ccgaaagaaa 240
aaagggttgg ttacgaaaac cccagttttc aag 273

<210> 4873
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220068g10a1

<400> 4873

cgcaaatacg agaaggaaca aaacaccgcg gaagcaacca tggccgaagc agaacacaac 60
gatcccacct cgccggagcg cgagggtcaa accaaaagca acaagaagaa actccgcaag 120
aggaaaaggc ctcacaagac cgagcagaaa cgagatgagg acaagaacga tgctaacatt 180

gatagtgtccc aaacacaaac cgaagatgaa gaagaagaac aaaaagaaga agacacaaac 240
aactttctcat ccggaatcat gagcaccgag tctttctcct ctctgggctt gtccgaaccc 300
acttccaaag ccattgcgga catgggcttc caccgtatga ctcagattca agcgaaggca 360
attccgacgc ttctgaccag gaaggacgtt ctgggcgcgg cgagaacggg tgcgggaaaa 420
accctagcgt tttagtatcg cggttgagtn gctgtacagc attca 465

<210> 4874
<211> 238
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068g10d1

<400> 4874

gtattacagt ttgtccttgt ctgttatttt cttttaatt actattattt tataacataa 60
taaagaacaa acaattaaag aagttgaaaa catatgtaga ccctaaacgg aaattacaga 120
caaggaagaa gaaactaact tcttgctcgt caaattgtct tgagtaggat ataaagaaaa 180
tgtaggcgct gacgtctatt ctactctcat cctgtactct aagggcattg acgtcttg 238

<210> 4875
<211> 531
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068g11a1

<400> 4875

tgaagtactc tgggatagtg atgcatactc ccgggtcgac gcgctcactg atcgagagaa 60
aatgaaagtc cttgttttct ttgttgctat agttctagca gcatggcatt gccatggctc 120
agaccatgac catgaccatg gccacaccta ccaaattttc cctctgagaa tgaaaactgg 180
ccatggtggc cactacattc cggaggtatc atgccaaagt tggaggcttg gtgtggaagc 240
acacaacgtc attgactgga aaaccgttcc tcaagattgc gagggatata ttgggaacta 300
catgcttggc gaacaatata gatcagactc caaaatagtt aaccaacaag cttattttcta 360
tgctaaaacc ctcaatatca ctgccaaaac cgcattgggtg ttcgacatag atgagactac 420
actctctaata ctccttact atgctgacca tggatttggg gtggagttat ataataaagc 480

atcgtttaat aaatgggttg accttggcga ggcaccggca ctgccagaga g

531

<210> 4876
<211> 396
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068g1ld1

<400> 4876

aaaaaaaccc caaaagaaaa aaccccgggg gggttggaca ggtttttacc acggggcctt 60
tgggcccaca caaagggccca tacctgggaa ttaaataacg gggggcccctg gggtaaaggc 120
gatttctcca tttttccaac ggggcttttt ttttattcaa gggaaccggg ctaaaagagc 180
cctaaaaacc ccaactaagg ggggaccggg gaacagggca cttaaggggc ctatcgccgg 240
gggggggtcc caaaagaacg ctccatgggg cccaagggt tccaaaggat tgggaacctt 300
tttccccag gttttttttt tcaagaaaat tggcaggaaa ggggggttaa cccgggggtt 360
caaagggttt ctggggaaat aacttttccc agggggg 396

<210> 4877
<211> 636
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220068g12a1

<400> 4877

gattggccta gccagtagta gccaatgtgt tggagctggt tgggaatggc gtcgaaaccg 60
aaatcaaata gaaattccaa atgcaacaaa ggattcgctg acagctatat gctgttgaat 120
cctgaagacg ctcatctctt cgatcttggt catgtgctgt attcccgtaa cttgggaaac 180
cgaaaatttg tggacagcaa tgctgaggga tcttatgagg gaagcttccg ccaaagatgg 240
cttatattcg tctctgtggt gctccagaag cttctgttgc tcatcgctaa gccactttcg 300
ttctttggct cttgcgttga gttcttcac aacctccttg tctcaacgg tggcttcac 360
atgatcgtaa ttaacttcct cacaggcac ctggctgctc ccgatcgtaa tgcaccaa 420
tattgtctt gcatcgaaa tttggacgg agagtaaagt tggatgccat cacgcgtgat 480
gactgcaggt actatngttc attagctatg atggcttcaa ggcatcctat gagaatgcag 540

cttaccttaa atctctaata aaaaccactg gaagatggac tccgtgagat ttttgattgc 600
 tggatgattt caagaaaagc cccaccaag tttgat 636

<210> 4878
 <211> 516
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220068g12d1

<400> 4878

gaaataaaca aacttcacat tgatctcatt aatgataaat ccatgcacca aaggaaacaa 60
 ctttaaacct agcttattaa ttactataca ataactcgta ctgacgacaa actggtatat 120
 tattcatgat cattatgata cataactatt cttcacatga tacataatca agtgttatta 180
 ccattttttc taaaactaaa aatcttgatt atgtaaattt tagtctgcat gaccatacac 240
 atgtacgtag tggatggaa tgatcatgta tacggacaca tcaatctgct ttaaaatggt 300
 tttcaattga tcccagaaga gtggaattaa tataatcttg tggaccgtga gcaggtaagc 360
 caggaatcag cagaccaacc aacctgaaac taaagagaaa ccaccttct ctatagttag 420
 gtccattttt gtacgctatg gtaaagctcc ttattagttc caaaacagca ttgaacatca 480
 tgggtatcac acaccatggc gagaaatagt tcttat 516

<210> 4879
 <211> 482
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220068h01d1

<400> 4879

caaggtaaaa attttattgc acaatgagaa ggcagagaaa attgatgggt ctgttttctca 60
 gtacaagttt tagaatgaaa aatgaagcaa caagtgttg tagtggtagt agtagtagta 120
 gtaagcatac aaaactacaa tggcatggta catacatata ataattgaat taccaattca 180
 gaatttgatg gctctcactt ccacttggtg gcaacaatgt cagccaaatc cacaaccctt 240
 tgggagtagc cccactcatt gtcataccaa gcaatcacct taaccatgtc atctcccatg 300
 accatgggtca acgatgagtc aacgggtgag gacacatcag tgcacctgaa gtcaacagac 360

acaagtggct catcacacac agagaggatt ccttggagct cattgtctgc actctctctg 420
aatgctgcat tcacttcttc tgcaaaggct ttctttgaga cctgaacaac gaggtccacc 480
ac 482

<210> 4880
<211> 550
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068h02a1

<400> 4880

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gagaattgct gattatcgct tcactcaact ctaccaaata gcatcactga ccaatctggt 120
ggagccgatt ccacagtata tgacatgaaa ccgtgcttgc ggacaaagcc tcttcttctt 180
ctgctctctc tgctacttct ccacaacatc acattcggtc tctccgatga ttccagcagg 240
aaaaacacct tccgcgagcg cgaagcctcc gacgactccc tcggataccc cgaaatagat 300
gaggatgcac ttgtgaattc aaagtgtccc aagaatttgg agctcagatg gcaaacagaa 360
gttagttcca gcatctatgc aaatcccttg attgctgata ttaacagtga tgggaagctt 420
gagattgtgg ttccgtcttt tgttcactac cttgagggtc tagaagggtc tgatggggac 480
ataatgccag ggctgcctgc ttccaccaaa tcaactgtgc attctagtcc tcttctatat 540
gacattgaca 550

<210> 4881
<211> 504
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220068h02d1

<400> 4881

ggagagaact gtgtattaat tataaatatc tattttgatt caataatgga aaaaagtata 60
tgtaactcgg ttaaactttt cagtatcaga ttactactaca ctacaacatt ttaagggcaa 120
aatcccgcga ttaaggatc attcactctg ttgcaatctt cgactatctc taaagtaact 180
ttagctgaac taatttttca gcttgtaaaa gattgctcca actccgtgat caaagttcac 240

cgagcagcccc aaggcatata tcataacaga ttctactcaa ttgacataa aaatattcac 300
 attttctgaa ctgagtatat gaaatagagt aatcatcatt aatcattgtt ccttgaaaaa 360
 gatggcaatg gcattgagcc ttgtgggcga aggattacaa gcacacccaaa catcccaagc 420
 attggaagaa catgatgcca cttcaacagt ttatagtagt gcatatggaa tgtaagagag 480
 aaatcatcag agaaatacag tcca 504

<210> 4882
 <211> 499
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068h03a1

<400> 4882

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 acgaaacctc ggaaacatca tccacagctc cgaaagatcg caaacatgtt gcgttacgcg 120
 gagttgtgcg ttgttctggt cttggtttcg aggctctcca tcaacctacc ctacacaacc 180
 gagtgtttcc gcaacttcac gggtagccct cgcttcgttt ttctcctggg aaacgtcatc 240
 atcataacgc tcttcgcaca atctggccac ttttcatctt cagccaaacg tgccccagaa 300
 cctgcagatc tctatctcga gttcctccaa aacaccacca ttcacacagaa acttcaagtc 360
 cacgtcagca aaccaaagcc aagtgcgaga gtattggaga gtgttataat aaagggcacc 420
 aaaactgcag agactggttt ggaggtgaag aaggattata gaaggtctaa atcggatatt 480
 gttgtgaagc gcgtggaga 499

<210> 4883
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068h03d1

<400> 4883

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 acatattttg tttgtttatt gattaaaccg aagcaatagc actgcatgtg tatagttttt 120
 tcacttttga ccccaatagt agaaagcaat aatatacaga catttgagtt tttttatatt 180

ttttttacca atactcatag tcctatactc ctattaatta attacagagt tctgtagttc 240
 gtagcctctg ttggcgagca atgaaagcct caaccttgcg acgaaagtcg tcgttgctca 300
 tgccatcttc agggtagcag ttattattaa caagaacttt ctcagtctca cacctctgca 360
 acacgcgtgg aggcaccttc tcaactctcca cgcgcttcac aacaatatcc gatttagacc 420
 ttctataatc ctttttcacc ttcaaaccag tctctgcag 459

<210> 4884
 <211> 515
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068h04a1

<400> 4884

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 ccaagacgag cccttatgga taatcttcgc aagagacatg gtgatccagc tgaaggagga 120
 gcttctcatg aactccttca agaccatcga cggaagaggc gccagcgtgc acgttgctgg 180
 ggggccatgc ataacgatac agtacgtgac caacgtcatc atccatggga ttcacattca 240
 cgattgcaaa cagggaggga acgctatggt gcgggactcc ccacggcact acgggtggag 300
 aaccgtgtcg gacggcgatg gcgtgtcgat cttcggaggg agtcattgtt ggatcgacca 360
 ttgctcgctc tctaactgta acgatgggtt gatcgacgcc atccatggct ccaccgctat 420
 taccatttct aataactaca tgacgcacatc tgataaggtc atgtttgtgg gtcacagcga 480
 tgcttacacc caggacaagg ccctgcaagt cacta 515

<210> 4885
 <211> 526
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068h04d1

<400> 4885

ggaaagaatg aataagccag aagagaagtt gcttgattgt ttgtcagcaa ggagaacctt 60
 tcttacaact gagtgcacca gcacctgttg ttatggaacc aacaaggga gatggtcttg 120
 cacttaagct agaagccctt gcatagctag aggaggctcc agcaccgat gatgtgaaaa 180

acgcaccggt tactaacaag tcccccttctg acctccaatt ccaatcctgc cactcactct 240
 ctggcgcatc ttcacgtttt gtcacctctt tgctgaatct gtcacggtt gcaacaaacc 300
 tattgccttg gcagttgatg gttggattag cacttccacc aatggcatac attttccagt 360
 gagtataatc attgttcacc acatggaaat acccaagcct acaccttggc atcctttgaa 420
 caaggccttc accaaagtgg ttgaaagcaa tagtgacttg catggccttg tactgggtgt 480
 aagcatcgct gagacccac aacatgacct tatcatgatg cgtcac 526

<210> 4886
 <211> 511
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068h05a1
 <400> 4886

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 tatttatatg atgtacacac aaaacaaggc caatgagagg aagccactta taggttggga 120
 agaagcagct tcaattcaga gagtgagtgc tttttctctg gcccatgaga ttccatggct 180
 tcatttgggt cagtcaatta caaattcttc ttgtgcctac ttctatggct ctggaacttt 240
 ctaccttat ctcaaggtaa tcagcactgg catgaaaata gatacccttt tatcagaaat 300
 gcaagctcat tctcatcacc atcaatttca actacgacaa gcaataatgc ctatgactac 360
 ataatagttg gaggaggcac agcagggtgt cctttggctg ccaccctctc tcagaacttc 420
 agtgtttttg tgcttgaaag agggggtgtt cctttcacca accccaatgt ttcattttctg 480
 gagaactttc acattacatt ggccgacatt t 511

<210> 4887
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068h05d1
 <400> 4887

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 accactaacg cttttttttt tcttgatgtg caacagtgt tcttttatct tccttttaca 120

cacctttttt caagatttgc catgatcttc acacaaggga ttcttcctta tataaccagcc 180
 aatttcccca acctatgtct caaaatcttc agcccatgt acctgcccac catcatgaca 240
 gttgcttgag gatttgttcc tgggtattcg tcaaatgttg agccgtctac cacacgaagt 300
 ctgtcaacgc caagaacctt gtaatcaggg ctgactacct tccccacatg gcaccctcca 360
 tggtagtgcc aaattgtgat cacggtgtct ttgcaaaact gtgctatcga cgctgtgaca 420
 ttgggatgct tgggtatgaa gttgacatta gccttgaca 459

<210> 4888
 <211> 464
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068h06a1

<400> 4888

caagaaggag aaaaccaaga agaccaagaa tctcattctc atcctcacca attccatata 60
 caattccaac ctcttcatca tcaacaagaa caacaacaac aacaatctta cacagggtta 120
 gacacggaga tcttaaacc actccaacca ccgaagaaac ggtcttgctt accgcctctt 180
 ccgccgccac caccgccgcc ttctgcgctt gcttcatccg aacatgcaag aaaaatggga 240
 gagctacaac accatcaaca acaggcagca gcagcagcag caccgtcgag agcggcgatg 300
 agaggcgctg gcgggcgga gattgtggag gtgcaaggcg gccacattgt ccgtccacc 360
 ggacggaagg accgccacag caaagtctgc accgacaaag gcccagaga ccgcccggtg 420
 cggctggcgg cgcacaccgt catccaattc tacgacgttc agga 464

<210> 4889
 <211> 544
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220068h06d1

<400> 4889

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 ttattcaaact cactacaaga aactcgaaac tgaagaagta caaagaagac acaatcactt 120
 aacaaaggga aacatagcac tccaatacag aagaacaca agaaacatag cgctccaata 180

cagaagaaac aaaagaaaca caatactcct agtcctagtt aaattaagca tgaaaaacat 240
aagttgaaca taaaaagcat aacaaaccga gggattggaa aacctgaata tccacctcag 300
atcttcttga attcccggtg tagcttgaaa atccattcat catgatcttc caaaatcatg 360
ttctctccat caattgaacc attttcaatg caaccccaaca aacctgagg gagaacaaag 420
ttgggggttt cgatgtgagt ttttcaaatac aatggcgaga atcagaggaa gcagaggacg 480
gcttgctgga cacgccgtcg tgttcctctt taccctgaat tcgtgcacga atgcggaagc 540
ccga 544

<210> 4890
<211> 593
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068h07a1

<400> 4890

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aaggccggaa aaataaaaaa ggaataacaa aaatgtctgg aaaggtaatt atctcggctg 120
tttctctcat cctggtggtt ggagtggcca taggtgtggt ggtggccgtc aacaagaagg 180
gcgaggatcc cacacttcaa tctcaacaaa aatcagtagg gggtatctgc caaaacactg 240
atgaccagaa gctctgccac gaaaccctaa gctccgtgaa gggcatggac accgctgatc 300
caaaggctta catcgccaag gcggtgaaag ccaccatgga cagcgtgacc agggccttca 360
acatgagtga taggctcagt accgagtacg gaggcaacga taacggaacc aagatggccc 420
ttgatgattg caaggacctc ttgcaatccg ctatcgagag cctccaactc agcattgaca 480
tggttcacaa caacaacttg caagccgtgc ataaccaaca ggctgacttc aagaactggc 540
tcagcgctgt tatctcgtac caacaggcct gcatggaggg ttttgacgat ggc 593

<210> 4891
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220068h07d1

<400> 4891

aaacaaagcc atttaaaaaa ttttcaataa aaatatttcc gggagacccc caaagataaa 60
 acccacgaat acccaatggg ccacgggcta taacccccaa caaccactt tttaacaggc 120
 cccaaatgag gaaccagga tatggggtgg gggaaattca attaaccct ccagaagcta 180
 agggcgtgag gaaccgggg agctttcaac caggcgcttc caccgggggt tccagcccgt 240
 aggaaccggg ccggggtgaa atggggacct tcttcggggg taaaaaacc ccgggaaccc 300
 tttcacttgg accttccgga aacgtgggcg ccaggggcca ccgggggggg attcacccaa 360
 gaacaagggg gtttcaaaat gcaccccggc ccatgggcac caaccttcgg ggggaaggaa 420
 gtcccccg gggatcccaa aaaacccgcc ctaaaaaagg cccaaggcct 470

<210> 4892
 <211> 552
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068h08a1
 <400> 4892

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 aaaacaccac caaatgggag aggaaaagga gcagcctaag aatgacaccg agaaaaagcc 120
 cgaggaggta gcccccaaga aagacgacgg acccatccct gtcgtttaca aactcgactt 180
 gcattgagag ggatgagtc agaagatcaa acgcacctgt cgccacttcg aagggtgtgga 240
 aaccgttaag gcggatctat cgtcgaacaa ggtgactgtt accggtaaaa tggacgccga 300
 gaagctgcga gataagattg ccgagagaac aaagaagaag gttgatatca tatcagctcc 360
 gccgaaaaaa gaagccgccg ttgcggaaaa accgccggag aagaaggcag aagacaagaa 420
 gcctgaggag aaaaaaccag aagaaaaacc taaagagagt acggtgggtt tgatgatcaa 480
 actacactgt gacggttgca tttgcgaaaa tcgaagaatc attcttaggt tcaaaggctg 540
 tcaattggtg ag 552

<210> 4893
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220068h08d1

<400> 4893

aataagatca acaaatttca ttgaaataat agtaaaccat ttattctgaa aaataaacia 60
aaciaagaac agctcatgtg atgtgagttc tggacaggat tctccagcca gccggccatt 120
ctctatctct attctctaaa acaacaacct acacatatga tatattatta tatcaaaatc 180
ctaccatatt ataaaaactc tctatattaa ttaaatttta ataacacgga atattatcca 240
cccctcaatt tttaacacgca cgtcaatttt tttttattta caaattacac catgcggtatt 300
ccgtatccgt atcccgtacg tgtgtaagtg tacaccgaaa attaatcacc gatcatcaca 360
tgattgaaca tgcattgggg ttttcatcgc tgaacatctg cggaggagga gcgtgcgggt 420
gcatgtagta cggtagaagt ggctgcagag gataaccctg gttcacgtac cctggc 476

<210> 4894

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068h09a1

<400> 4894

ctcgagccgt ggcgagtcac agaagtggag agactgagga taccttcatt gctgaccttt 60
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ctaaatataa ccagctcttg agaattgagg aggagcttgg tgcggaagta gtgtatgctg 180
gagctaactt ccgtaccctt gttgagccct actaaagttt tcaagtggaa aaaacctgga 240
gatccccacg agtttgagca atgagatttg gatgcgcggg tttagttgtg atcaataagt 300
cgatagttag aacaatagtc ttggtataag gaccttgcca ataatttttt agttctgatt 360
cacagagcta agacagttcc gtcttagact taaaagttt tgatatttag ctttaatact 420
tgaagtttac ttccaatttt atgggggtat cccaaaacat ttcatactct ttgctatgtt 480
aacttttttc ccctttc 497

<210> 4895

<211> 381

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068h09d1

<400> 4895

tttttttttt tttttttatc ttactttctt ttgttttgtc ttttttatat tttttatatt 60
tttttatata taattaattt actttttttt attttactta taatagactg ggaaaaccac 120
taaaaaactt aatcttaatc aaagggggga aaaaaaagca caacaacaaa aaaaaaaaaa 180
gcgggggggg ccccccccaa aaggaggaga aacagcgagc caacagccgg aaaaaaacac 240
actcaaagag caaaaacaaa aaaaaaccaa cccgggaaaa aaacccaaaa aaaatagggc 300
cgggggaccc acccaaaaaa tacgggaaaa cccctcacia aacggccaaa cacaaaacc 360
cgcccacaaa aatggttgag c 381

<210> 4896

<211> 571

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220068h10a1

<400> 4896

agcccgtcct acaaaatcct ttagtggttg ctggaggatg agaatttctt tagctcgagc 60
actttttgtg caaccaactc tattattgct tgatgaacct acaaatcatc ttgacctgag 120
ggctgttctc tggttggaag agtatttggt ccgttggaag aaaactctgg tggttgtctc 180
acatgatagg gattttctca acacagtgtg tactgagatt attcatctcc atgatttgaa 240
acttcatttc tatcgtggaa attttgatga ttttgagagc gggatatgaac agcgtcgtaa 300
agagatgaat aagaagtatg atatttatgc caagcaattg caagcggcta agaagagtgg 360
aaaccaggct cagcaaaaaa aagttaagga tcaagctaag tttgcagcag ctaaggaaaa 420
aagcaagggc aagggaagg gcaagggtga tgaggatgag gccccaccag aggcacctca 480
gaagtggagg gattacagtg tggagtttca ctttcctgaa cctactgagc tcacaccnc 540
acttctgcag cttatngaag tcagctttag c 571

<210> 4897

<211> 432

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068h10d1

<400> 4897

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tttcccgcaa cctaaaatta cagagttgca gaatacaaga aaatgaacaa ggagaagggg 120
aggacaaagt ccagcattgg cgggaggcaa gttatcttta tcagcaaat acaggaagcc 180
aaaaatgtag atatatgagg acaaattgtc actaaaataa tttttttcag aaaaggaagc 240
tcaatcatca acttcagctt taatctctct cagcaagtcg tccttgtaat cctcaaagt 300
tcctgggaaa tttttgacag taccatcttc gacaaccag atttgactcc tttcttcac 360
ctcacatata cgtgatata atcttgaatc atgactaaca agaacaactt caccggtgaa 420
ttcattcagt gc 432

<210> 4898

<211> 566

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068h11a1

<400> 4898

caccatcaca gccactgcag ttgctacagc aacaaccgca gcagaggcag aatgatcaca 60
cttctcatcc agctcgccag gttgagtctg agatgggtgg tgaagacagt ccatctactg 120
ctgatagtcg tctcgcccggt gccaccatga atatttatgg ccaaaatttc acaatgccta 180
tgcagtcgcc aaactttgct ctgatgacac ctgcctcaat tgggtgcagga ggctccaatg 240
gcagtcacag tgaaaagaag caaccccagc agcaccctgg tccaaaggct ggaggtgaaa 300
cagctcctgc atttgccatg tcatttgcac ccatgaatgg agctactggc gcctctggcc 360
ttgacctctc atctattgca cagaactacc attcaatcat gcagagtaat cataactatc 420
atataatggc agcacaagct gccagtgtc agttgaagat gagttatcat gccgccgagg 480
aagggaaaag tgtagttaat ccttctaata tagacgaaga tagaaaagca atatctgctg 540
ggaaaaattc cgcaacaatg gggcaa 566

<210> 4899

<211> 437

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068h11d1

<400> 4899

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tttatgatca ggtggccacg tacatacttc atccttcgac cacatagact ctgtcccata 120
gatgcttact gcggctctag tagccctata ggacggcttt gaatgacttt cttgaaatga 180
tgaggagaaa gaacatgtcc gtgctctaca ttacatcccc atgggatgag ctgacggggac 240
tatecctggc tttactgcat ctagctttcc ccatgacatg cttgtgaaga accctgtcga 300
attttgggtc aactttgcga tcaaccttga gagaggtatt aacgccgagg ggcattgctta 360
ttacttgaca caatatacgc tcgtccatgt tcttgggatg gacgattggc catccagcat 420
tgatgaatcc aaatcat 437

<210> 4900

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220068h12a1

<400> 4900

atcagctgtg actgaccact tatagccaga atgtgatgag tcttgaagat ggtattgtca 60
agggttttga tattcggact gccaaactctg attcctcatc agatctgagt tctacattta 120
cacttcatgc acatgacaaa gctgttacct cagtatccta taatccatcg gcaccaatc 180
tccttgccac tggatccatg gacaaaacg taaaactttg ggatttgtcg aacaaccaac 240
cctcttgtgt agcatctaaa tctccgagag caggggttat ctttaaaatt tctttctcag 300
aggacaaccc cttcttgttg gctataggag gctcaaaggg aaaattgcaa gtttgggata 360
ccttatctga tgctggcatt tctcgaagat atgggaatta caagaataga tcgcaatctg 420
ggctttgaag ttgtagtctt gcttaccgta ctgctcaagt tgcgttgcat acatcacaat 480
tttgggattc act 493

<210> 4901

<211> 248

<212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmf102220068h12d1
 <400> 4901

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atacgaataa ccaattccaa tttgtgctat ctcaaagaa cgttggtcatg atgctaacaat   60
tgaatttatac aagaacatat tacagctatg gatcccttac tttgggatta tgcaactcaa   120
ctcgagcgag tcggtacgga cctctgccat gtccaaaccc tggttgcaac ctatctgtgt   180
catctccata tcttagagag cgccgccttc acataaggca taccaaactt gctaaaatgg   240
cctttgag                                         248
  
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<210> 4902
 <211> 338
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220069a01d1
 <400> 4902

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aggctcgtcg atcgcgtacg gtcggtgctc attcccgggg gggcagctac tagtcggagg   60
gcgccctttt ttttttttct tcgatgctaa gtagttttga tagccagcgc cacctgtgag   120
catgaactgc gtgacctctg tctgaagact gtgctactcg agtaccacca agctgatacc   180
gacgaccact gctaggtgat ccggatggcc gttctcgtcg ccatttgcaa tggttaccgg   240
acatacagac ataccgctgt tggatgtcac gcctatgaca cattgacgat agggggcctg   300
agagaagaaa attttattag atttatctaa gacgacct                                         338
  
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<210> 4903
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220069a02d1
 <400> 4903

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttttgt   60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt   120
tttggggggg aaaaaccccc cccccccct tttttttttt cttttggtgg cgccggccca   180
  
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acacacgggg gggaccccc cccccctttg ggggggggaa agggtaaaaa acaaccgggg 240
 gggggaaaaa aaatttttac tccccgtttt ttcccgggga aaaaaaaaaa aaaaccacct 300
 tctataattt ctccgggggg ccccccccg aaattttgt gggggggggg gctctctccc 360
 ccaaaaaaaaa cctttttctc tcttttcccc gcccgggggg ggggtcccccc ttt 413

<210> 4904
 <211> 391
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069a03d1

<400> 4904

agctgcaata tatatagtta tacaatcaa atcaggatgc aggagtcta tcacaacagg 60
 attaaaaacg aaaaccacac taagattggt ttctacttgc taattgctaa tacaatgaag 120
 cacatgcat taagatgcac tttctataaa taatttcata ctataacaat gggaaacgca 180
 aacctacaac attcgacaac agttgactag gttgttaaaa aagcacactg taatcaacct 240
 actatttttt tgttttttta atagaaaatc aatcctatcg attcatctgt cattcccaat 300
 gaggtttctc tgaattatgt tgttctctcg aaaccacctc ctatctgcat atgcagccat 360
 tcaggagggg atgatccctg agcatacccc c 391

<210> 4905
 <211> 369
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069a04d1

<400> 4905

aaattagtta aaaatacatg agtggaagaa aataatacat ataaaagggg tatctatcac 60
 aaactaaaag acatttgaga tcaaagaaaa actacagagg gggtaactaa aaagctgtta 120
 tgaccattac agtcaaccat gaagggttta gtcgataaat tccctaaatc cttcgatcct 180
 agtaaaaatt tcattagaca aggccaaact aaagctttct ttcaacaaaa atctaaatgc 240
 aaatgtgtta caaaaggggg agaaaaacaa accaatcccc gtagaattct acagtatttg 300
 gtatctactg gaaaattttt ctaaagggtg taagagaaaa ccaaagtaat tatgttctct 360

tctcttttt

369

<210> 4906
<211> 500
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069a05d1

<400> 4906

atgtaacatg ataggactta catacgggta tcaaatacaa gttggtgaca tagagaaatt 60
tgatttgaca ttcatagatc agaataatcag acttacatac gggatgaacat gatacgggtg 120
aacatgatag gagcacaata ctatacataa aaactgacac aacaccctat tagatatgaa 180
aaactagata gcatccaatt acaaaactta agcatacata agaaaattat gcacacataa 240
gtttgcacgt ttatttgtca atgagaggta cgttggaagg aaagaaaacc acacaccaca 300
caccacacac tcttattaga tagagatgct gttgggaatt cctctgaaag taaggccttc 360
cccactggta ggaagaagca cagtgtaggg catttgcgcc ggtccattac ggttcctaag 420
gcttgaaatc ttgttcctcc ctgagatctt gtcctcaatt tccttcagct tgtttccaaa 480
cttcttaaag gcttgaattg 500

<210> 4907
<211> 561
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069a06a1

<400> 4907

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aaagcccctt gttttgcata gagctactta aaatgtcgga gggaaatgag gagagaggaa 120
agagaattgc cattattggt gtctcaacct tattgttggg ggcgatgggt gtggctgtca 180
cagttggtgt caatgttagt gagaatgggt ccaacaatga ggacacaaaa attgtctctt 240
ctgtaaaagc cgtccaaacc ctttgccatc ccacaaatta taagaaagaa tgtgaggaaa 300
gcctcatagc cagggctgga aataccactg atccaaaaga acttatcaaa attgtcttca 360
acatcaccat tacaaaaatt ggcgataaac tcaaaaaaac taatcttttg catgaggttg 420

aggaggatcc cagagccaag atggcacttg acacatgcaa gcaactcatg gatctttcta 480
 ttgaggagtt aacaagggtca cttgatggaa taggtgagtt tgacctgaaa aatatcgaca 540
 taatcctcat gaattaaaag t 561

<210> 4908
 <211> 494
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069a06d1

<400> 4908

gattgaacat gttttgtag ttattgtgac ttgaaaagt tgtcataagt acatgttctc 60
 atttatagga atacttttga cacaaaagat cttacattg tcacaccatt agcctcgata 120
 cccctttctta ggaaatacaa tgggtaaaat atctagaaga cccatttatt agtcactaaa 180
 caaaaaaaaa atatcaaaga ggaattacgt tacattgatt tcaattcctt gagatacaaa 240
 aatgtagctc actctaaaat taattaatga aatcaaaata attaaagaat aaagaagctc 300
 aatcattcct tattaattaa tttatatttc ttgctttcac aactcatcac ttttattacc 360
 aattaagcct tgtctttttg tgcctatggt gtgcgggaat gtcacgaaaag caaggaatcc 420
 cagtaacttc aatccagtca gttccgtgaa aaaacttaga tgctgagaac caacgtgcag 480
 cttttgaatt gaga 494

<210> 4909
 <211> 437
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069a07a1

<400> 4909

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 taggagaaca gtacatgtat gggacaggcc ccgtggcccc accccatata tgactggatg 120
 acaaagcatt ataccatgaa aattagcaga gccttacaag atgtgccgct gataagaaag 180
 taggatgcag tcaacttgaag ctaaaggctg atttcaaacg ctagtgcatt gtacaaagat 240
 taccaactac agacttcgtg atgtctttga cgtctctagc tatcatgggc atactacatg 300

ccatacttca cactatggga ataatggccg ccccggtgat atatatcttg gacttaagtc 360
 acatgtctac tgtcttcgtg ggggtactctc atagggatac atgcccgtac ccgattacta 420
 cgattgttac tggcttg 437

<210> 4910
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069a07d1

<400> 4910

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 tttttggggg gggggcgcca aaaaaggaaa aaaggggggg gaaaaaaaaa aaaaaggggg 180
 ggggggaaaa aaaaaaaaaa aaacaagaa gggggggggc caaaaaaaag aggggggggca 240
 aaaaaaaaaa aaacgcggag ggggggaaaa aaaaaaaaaa ggttccgacg ggcgcaacca 300
 ccaataaaaa aaataacagg gggggggggg ggggaaaaaa aagtgggggc ccccgggcca 360
 aaaaaaaag ggcaccacc gggggggaaa acccccgggg gggggtaaaa aaaaaggggg 420
 gagggggggg ggggggtttt 440

<210> 4911
 <211> 600
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069a08a1

<400> 4911

gtttcattag atgaaaagtg aaaaatgtga caccatctat cccaacatac atataaataa 60
 gaaaaatata taaaaatatg aaatttaatt aaatcaattt tattcaaatac acataaacia 120
 atccacgtgg ataacatggt cacattcact tcaactgttat caaataaaac ttattaaaac 180
 atctttggct caaaataagg tcgtccaagt ttacaaaagg aaacaaatta agcagcgaaa 240
 taaaataaag taaaatagca tgttcagaac attatgcaat taaaacaaaa tctcatgccc 300
 caatgtcaca tcctatcaga gcattatgtc acaacgtcct ctagcacgag gttctttaaa 360

gtcgtccacc tagtcatctg ctcccatgaa aacaagggtc gagatcatca caaaatctaa 420
acacaaacaa cacgtaggga gtgagttatc atatttttaa ataaaatata gataaacaaa 480
tacataagca aaatacatta taaaaatatt tatcacatag ttcaacttaa tacaattcac 540
gtcacttcat cactttatca tttaaaactc atttttcaat catcaattac attacacatg 600

<210> 4912
<211> 329
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069a08d1

<400> 4912

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ttcactgaca tggtagcaca ttgcatatac gcttgagtct tagtatagct gattcataac 120
gcctatgaat tttttattat gaaattgggtg ttggtacgtc ttgaatcgag tgtgggattc 180
atgtgtaatg taattgatga ttgaaaaatg agttttaaat gataaagtga tgaagtgcag 240
tgaattgctt taagttgaac tatgtgataa atatttctat aatgtattgc gcttaagtat 300
ttggttatct atattctatt caaaaatat 329

<210> 4913
<211> 559
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069a09a1

<400> 4913

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aaccgaccat ggtgcacgtc tccttttaca ggaactatgg taagacgttt aagaagcccc 120
gccgtccgta cgagaaggag cgtctagacg cggagctgaa gctggtgggg gagtacgggc 180
tgcggtgcaa gagggagctg tggagggtgc agtacgcgct cagccgcacg cgcaacaacg 240
cgcggaatct ccttaccctc gacgagaaga acccgcgccg gatcttcgag ggcgaggctc 300
ttctccgcag aatgttccgc tacggactcc tcgacgagac tcagaacaag ctcgattacg 360
tcctcgccct caccgtcgag aatttcctcg agcgccgcct tcagacgctc gtcttcaaat 420

ccgggatggc caagtcatt caccacgcca gggttctcat caagcagaga catatcaggg 480
 ctgggaggca agtgggtgaac atcccatctt tcttggtgag ggttgactca cagaagcaca 540
 ttgacttctc actttacag 559

<210> 4914
 <211> 457
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069a09d1

<400> 4914

aatggaaaat cttgatactt taaaatatcc aaattcacao aaacataata tgtcaccact 60
 taatatcttc tcaaacaagg gaaccaaagg atgaaaatgt ataacaacca aaatcgatta 120
 ggtaggcaaa gtaaaagggtg gcataagatc taatagcact agagaaagac ataatgaaca 180
 gtctaatect cgtcttcctc gtctccgtct ccacctgcgg ccttcttagc agcagccctt 240
 tgggtttctc tcttcaactc tccagggcgt ccgccaccaa ggggacttgt aagtgagaag 300
 tcaatgtgct tctgtgagtc aaccctcacc aagaaagatg ggatgttcac cacttgccctc 360
 ccaaccctga tatgtctctg cttgatgaga accctggcgt ggtgaatgga cttggccatc 420
 ccggatttga agacgagcgt ctgaaagcgg cgctcga 457

<210> 4915
 <211> 502
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069a10a1

<400> 4915

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 caccaaccaa cattgccgtt atcaagtatt gggggaaaag agacgaaacc ctcatcttac 120
 cggttaacga cagtatcagt gtcaactctc atcccagcca cctctgcacc accaccactg 180
 ctgccgtcag tcccgtttc caccaagatc gcatgtggct caatggaaag gagatttctc 240
 tttctggggg caggttccag agctgtttta gggagatccg tgctcgtgct tgtgatgttg 300
 aggatgaaac aaagggtata aagatcacao aggaggattg gggcaaattg catgtacaca 360

ttgcttcgta caacaacttc cctactgcag caggactggc ttcattcagct gccggttttg 420
catgccttgc ttatgccctt gggaagctaa tgaatgtcaa agaagatgaa agccaactat 480
ctgctatcgc aaggcaagga tc 502

<210> 4916
<211> 544
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220069a11a1
<400> 4916

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ccttgttcct gtcctctacg actggctcgc caaccacaac ctctgtctggc cctctctctc 120
ttgcaggtgg ggccccccagc ttgaacaagc cacttacaag aatcgccaga gactctacct 180
ttctgagcag actgatggta gtgtgccgaa tactctgggtg attgcgaatt gcgagggttg 240
gaagcctagg gttgctgctg ctgagcacat ttcgcagttt aatgaagagg cgcggtcccc 300
atgtgtgaag aagtacaaga ccatcataca tcctgggtgag gtaaacagaa ttagggaatt 360
gccacaaaat tccaagatag tggctacaca tacagacagc cctgatgtcc ttgtttggga 420
tgttgaaagt caacctaatc gccatgctgt ccttggagct acaaactctc gttctgaatt 480
gatattgacc cgacaccaag ataatgcgga atttgctctt gctatgtgcc caactgaacc 540
ctat 544

<210> 4917
<211> 472
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220069a11d1
<400> 4917

caaacagaaa atagaattgt atcaattaag taacactaac cacaaatcat cgtcagatct 60
acgttaatct aggttttccc tactccagcc ccatacatga atggttttta aatgccatga 120
aacatccacc gcaaatgtta aattaaatac aacagcaata ataataaac tcattttttgc 180
ctacgacgta tgtcattttt cagtctttga agcacacgcc acaacatgag atttgaattt 240

ctccagctcg gccaaaacct catcttctgg tctgtagatc aaatcactca tgcgccatat 300
 ctgcaacggt cccctctctc cagtactttc acagtcatta gacacactaa caatcggtcca 360
 tggatcatat gcattccaat ggaagtcaac aactttatcc ctatgacctg catgttgaaa 420
 aaacaaccct ggaggagaac ttattgattt tccagatcgc tctatctttt ta 472

<210> 4918
 <211> 578
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220069a12a1
 <400> 4918

gcaaaggcag aaagagctga agcttcttcg tgtgtgacaa agtaacaaat ttcagcatta 60
 gcttagaaaa tggagttcgt tcctgaagaa ggcaagcacc ttcacgagga ttgctccact 120
 ttgattttgc ctgctctgtc gattggcaat gtggggcagc tagttgcaga tcttttgatt 180
 tcatcaatgg gttctgagag agttgggtat ttggatgac ctaacgtttt gccctgtggt 240
 ggcaatgatg cttatggacc ctttcctcaa ggagacctgg ctcttcctct tgaagcttat 300
 gattccccct ctaatgctct cactatcatc caacagagat caccggtggt taagggtatg 360
 atgattgagt ttgcaaaaaa tatggctgat tttcttgctg gtagtggaag gaagcatatt 420
 gctgttctct ccagcttaga ttttggaagaa tggcaaatag ttgacatgac aagtgggttg 480
 cagatttatt acctttctag tttcaacagc aatggaacag atgaaaattg tgaacagctt 540
 ggggtggaaga cacttcaaga gtatgacct tctcaatg 578

<210> 4919
 <211> 266
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220069a12d1
 <400> 4919

gaaaattata attaataataa ccttcagaag acaaaatccc cacactgcgt aaaaatatat 60
 tgttacattt cacctctaaa cgcacatcaa tgcacgagg tcatcgctgt ttgattccaa 120
 aaaagagaga atattctaaa actataattt ttatcttcag cagccattta attttcaaaa 180

ttagtacatā aatccaacct tagaagatgg acacatctgg ggggtggcca tatacactca 240
 tccaagaaag tggaactcgc catttg 266

<210> 4920
 <211> 538
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220069b01d1

<400> 4920

gacaaataac attattatat caacatataa gcttaciaat ttccacattt tcaggaaaca 60
 aatgaaggaa attcatccca gttttgactt ctgattgagt gaagccacaa gacacgtatc 120
 gaagttccca aattaacaca aattgcttgg tcagatgacc caaaaccaag ctataacaga 180
 cccagcagct agaccaaaaa ctaagaataa tacactcaca atccctgcag tctctgcatg 240
 ctgcaacatt acaatttttag gaatcagaat catcaatgca ctgggttaggt agccattagt 300
 aagccctaac aggcaagtca gtattgtcac gggaatctca gtccggaaga atttgggacc 360
 atgcaagcaa cctaagaaga gagggaaaaa caacaatctt gctatgcaac cacctatggc 420
 aacttttgca ttctgtanga ggtaaactgc agtcagacac ttgccaacan gatcaaacac 480
 attatagcca gcaattagga gaattggata ccaatcctta agaattgaga gtgaacat 538

<210> 4921
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069b02d1

<400> 4921

gacaggcaac catgcatata tatacttcat aataagatgt tcaaaagtca ggcccccaag 60
 gaaactgcat acataattaa caattaaagc aaacaacttt ggccacactt gcagaacaca 120
 acatcctgct gcattgttca acagacaaac ctaccaagac attgttaatt tgcaagggga 180
 tctttcgtaa atctatcttg taggcccac catgtttgtc caaaaatgcc tccaccgctt 240
 ccttaatggc caagtttggc actaactgtg atggatcaag gggttctcgt gtgattgggt 300
 cgaatttacc aaccttctga agatgttcaa gaatcacagc tctctcatat gtaagtccac 360

ttggagtgat aacaggatca tgaaaaatgt cgagtgtgat tctacagcac aaataatctg 420
gcacctcagt aggtatgtca gcttctgcag ctgtattgaa gactctttct aaagcctcta 480
attgttctga atggga 496

<210> 4922
<211> 168
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b03d1

<400> 4922

cctacgagcc ccgggggggg ccacacccca cacacaaaag gggccaaaaa aaaggggcac 60
taccgggctt tcccccaaaa aaataagggc gggaccggca atacgaagcg aaaaaaaga 120
aaaagaatag ccccccaat ccagaagggc taaacagggg ggataaaa 168

<210> 4923
<211> 440
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b04d1

<400> 4923

gccaaacgta gtgaacaaat tttatgcaaa aaattcgaag ttattcaaac agccgtgttc 60
ggacttcaga ctccaaaagt gctacaaatt aaagagcctt ccagaaaaaa tggctttcaa 120
cattagatac aaaataagta accttgtatt cttccaatta tgtgatgatt aataagaaac 180
aaatgctaca aaaccaagcc taaatgtctc atttcttgac ttctcatac tcggcctcgg 240
gagcctgttc accaccctga gaacctccgg ctgaggaacc gccactagaa ccacctgaaa 300
tgtgtctctc aatcttgagg acagctttgt ttgcagcatc aagctttgcc ttaatttcgt 360
cagcattgtc tctgtccatt gctgggtctc aatccgatac tgcattttca atctctttgg 420
ccacttcact ggggatctta 440

<210> 4924
<211> 500
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b05d1

<400> 4924

gaccttaaag agttgaactt tgaaaggaga cacaaaatct agattttgct gctccaatat 60
taaaagctgg tttggtatcc cttcaaatac acagataaac gaattattta tataacttat 120
ttatataaac tcgtccttga atttttacct ttataagaat acatactgat ctaaaagaat 180
gttttttctt tcctaattag aggtgaaaat cttattgatg aatttgcaaa tgaaactcat 240
caaattttca catctatttt gaggacatct accaaataga gacctaaagag gtgaactcag 300
gaggaagttc tcctcgtagg aaaaatgaga tcatgggttag ggctctctgc ggttggtaac 360
ttggaacatc gtgcccagct cctcttacag tgattagtgt gagccctttg tacccaacca 420
agtatcctcc aacctcattg ctagaatacc atggacgcca tgttgtctcc actggaagtt 480
tcatggaatt tattgaatac 500

<210> 4925

<211> 590

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069b07a1

<400> 4925

caagaccaca gggcagaaga acaagatcac catcaccaac gacaagggtg gactatcgaa 60
ggatgagatt gagaagatgg tccaagaggc ggagaagtac aaggccgagg atgaggagca 120
caagaagaat gtcgacgcat agaattgctt ggagaactat gcctacaaca tgaggaacac 180
cattaaggat gagaagattg catcaaagct ttctgatgac gacaagaaga aaatcgaaga 240
tgccatcgag agtgctattc agtggttggg tggaaaccag ctagcggagg ctgacgagtt 300
cgaagacaag atgaaggagc ttgagagcat ttgcaacca atcattgcca aaatgtacca 360
gggtgcaggt gctcccagca tggttgagg catggatgaa gatgttcctc catctggatc 420
cggtggtgct ggcccaaga tcgaagaagt tgattaaatt ggttcattat ttagatggga 480
tggtgctgtg ttggatctat tccgtttttt attctttatt taatttgtct agatattggc 540
cattatttgt tactacacca ggatgggatg gaaatctttt tttggtttga 590

<210> 4926
<211> 347
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b07d1

<400> 4926

aattagatta ttccgtttttt aaaacatttt tctgctctat accataggac cagcccattt 60
cgcacgaaaa acgtctatat caaacatcaa cagcgcagaa aaaactaaaa aggaacggcc 120
caaaaaatgg gaaaaaaaaa caaaaatttt taacaaaaaa aaaaaggggg gaaaaccgga 180
aaaaccattt taaacaaaaa aaaaagatta tccaaaaaac caaccgggag cgggggcca 240
aaaaaagggg ccttgtgact aaacaaaaa acaaccgcg caaagcgacg gagttgggtc 300
ctcccacgcc ccacccaaaa aaaaaacgcc ccccccccc cccgggg 347

<210> 4927
<211> 573
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b08a1

<400> 4927

ttccaatata ttccattctc tctgtgtatt tccctacctc tcccttcaag atgcagatct 60
tcgtcaagac cctcaccggc aagaccatca cccttgaggt ggaaagctct gacaccatcg 120
acaacgtcaa ggccaagatc caggacaagg aaggaatccc cccggaccag caacgtctca 180
ttttcgccgg aaagcaactt gaggacggcc gtacccttgc tgactacaac attcagaagg 240
ggagtactct tcacctgctc ctacgtctcc gtgggtggcat gcagatcttc gttaagacac 300
tcaccggcaa gaccataacc ctagagggtg aaagctccga caccatcgat aacgtcaagg 360
ccaagatcca ggacaaggag ggtatcccc cgaccagca acgtctcatc ttcgccggaa 420
agcagctcga ggacggccgc accctcgccg actacaacat ccagaaggaa tcaacccttc 480
accttgctct tcgtctccgt ggtggcatgc agatcttcgt taagaccctc accggcaaga 540
ctattactct agaaagtcga agctccgaca cca 573

<210> 4928
<211> 456

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b08d1

<400> 4928

cacacattca taacaaacgt aggtgggata ttagagtact attattaatg ggacacaatt 60
gagttcaaca caaacccaac ttattttcaa gggacattat tacagacca ttaaacaatca 120
aagttcttca aatgttttgg gaacacattc aacattacac aacgagctta aaacccccca 180
cggagacgga ggacaagggg aagggttgat tccttctgga tgtttagtc agcgagggtc 240
cttccattct cgagctgctt tgccagcaaa aatcagcctc tgctgggtccg gtgggatgcc 300
ttccttgtcc tgaatcttgg ccttcacatt gtcaatggtg tcagagctct ccacctcgag 360
ggtaatagtc ttaccgtaa gagttttcac gaaatttga taccaccacg aagacgcaca 420
ccaagtggag agttgactcc ttttggatgt tgtagt 456

<210> 4929
<211> 555
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b09a1

<400> 4929

ctttcattgg tgtggcctag ctgttttctc aatgagaaag ccttcattctc tgcaaagcgc 60
acttttgccg tttgggggtc ccttggttgc tggtatcacc ttctgttatg ctactttctac 120
tgctgcagca acaaactcaa gtttcaggga atgaagagct gccaaagaca aacctaaatg 180
ggcatgatga agaagcaaaa ttcggatttt ttcatcataa accaatattc aagaaacata 240
ttccaattcc agtatataaa cctgtaccaa agccatttcc agtgtataaa cctataccaa 300
agccagttcc agttccagtg tacaagccta ttccaaagcc agtgtataag cctattccaa 360
agccagttcc agtgtacaag cctataccaa agccagttcc agttccagtg tataagccta 420
ttccaagcca gtgtacaagc ctattccgaa gccagtgtat aagcctattc caaagccagt 480
tccagtgtac aagcctatac caaagccagt tccagttcca gtgtataagc ctattccaag 540
ccagtgtaca agcct 555

<210> 4930
<211> 574
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b10a1

<400> 4930

aaggggcaat gtaaggggta tgaatcttga gagtcctgtg aagactgaag tggaggaagc 60
ttatgaaggg gaagatgagc atgaagaatc accttccatc aagagggagc tctctgattt 120
tgatctccaa gtcctcgaag ttgctgcaag caaaggagga tgtgatccat caagtgaaga 180
gataaaatac cctagtttat acgaaaacca agctaacatt caattggaag acaaagacca 240
tgaatacagc aaaaagagtt gtgacataat tcaaagtgga catgtcagtg atcctgggat 300
tggcaaagct gaattttgtg cttctccaaa gctcaagcga tcctgctctg acctggaaa 360
aagggatgta ctaagggaga cttgtcatct ctttccatct tcaaagtcac agtcttttga 420
ggatttgcag gggttatcag cacatcagat ggtaaatcta gaaagcccca ggtctgtgat 480
gactcaccgc agtgctgata gagtgatggt gaaaaggcat tcctcaagtc aagttctccc 540
ttctagaagt aaaagactgt ggtggaagtt gttc 574

<210> 4931
<211> 399
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b10d1

<400> 4931

ggaaaacatc aagctccaca cactaatttt ggagacgaag aaaactgctt tacatcaagt 60
tttaaacc aa gagactttca atggctagag cagtctcctt tatgggataa tcaaaccccc 120
atgataacta acggggtgaa acaaaacaac accaattccc gcaaagcctt tttattccac 180
aaaggggggtt acaggttgaa gcaagtcctg ggtaaaaaca agtttgaaaa aaactcctcc 240
attttatcaa gttttaaaaa tactgatgaa tgccgctttt cacaaacacc taaggagggtt 300
tagttgggct ccttgacctg ttctgattt tttgggaaac actagcactg tttttatgca 360
cactggaact tgacccttca tggccgccac cttttttta 399

<210> 4932
<211> 580
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220069b11a1

<400> 4932

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ccacaaagtc actgtccccc cttctttcac cctccactac ttctcctctt gacgttgagc 120
ttctcttggg aaagatcaaa gcttcactgc aaggtagtaa ctctgacaac cttgttttgt 180
cttcatggaa ctctccacc ccactttgtc agtggaagg cctcatatgg gtcttctcca 240
atggcactcc tctctcatgc actgacttgt cctctcctca atggaccaat ctccactcc 300
tcaaagacct ttctcttcac ttgttttccc tccggctccc ttctgcaaac ctctctgggt 360
ccctccctag agagcttga gggttcccta tgctccaaag tctctacctt aacattaact 420
cattggaggg taccatccct cttgagcttg gttatagctc ctctctctct gagatcgatt 480
tggttgacaa tatgctaggt ggtgttcttt caccttctat ttggaactng tgtgagagggc 540
ttgttccctt aggtccacc ggtattcttt atctgggtta 580

<210> 4933
<211> 530
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b11d1

<400> 4933

gcataattgt gtgactatat ttgatttcaa aaacaatagg gactacctga tgcaaagagt 60
tatggagtaa accaaaaatt acaacattct ctctagatca tcaaaaacta gccttatatt 120
cagattcagc tgagaaaaag gaaacacaaa tattaagtaa aaatcactag ttctgttaag 180
catgttgaaa gggaaggctc aaaatggggt aacacttcca cttcttggtt ctgtagggct 240
gtataatgca gacctgttcc ttgggtctatt ctctccaac tgctcaca cttcatccat 300
gcttggccta acagatgcca ctgggtgcaca gacccccatt gccagtttta gcgcctgcac 360
caacccatct ttcatagggc ttcttatccc ttcaaaaagc tccacattaa acattgcat 420

cgctgtgttc ttcaaaaccg ccactttcac catcgaaggc aagtccacat actcgccatt 480
tattccaatc ttcccagggt tcttccaatc aagaattcaa gcagcagtat 530

<210> 4934
<211> 486
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b12a1

<400> 4934

tatcaaccct gctcgtagtc ttggtgctgc tatcatcttc aacaaggacc ttggttgga 60
tgaacactgg atcttctggg tgggaccatt catcgggtga gctcttgag cactctacca 120
ccaggtcgta atcagggccca ttccttcaa gtccaagtga ttcaatcaaa cggttcatgc 180
ttaatcaagt tgggaacaac aacaacaaca aaaatcaagc caatgtttgt gggttttggt 240
ttcatttcat taagatgac tgcttatctc ttttcttctt tttaaaattt aaagtctttg 300
tattttgtat gtaaagatgt aaaattatga ttattagggtg gtgcatgtgt cgcgtcatgg 360
gccaatgtta tcctctgctt ttaagttgga agaggcccaa ctcatgtgtg atgtacggct 420
gtgattgtgt aatttaattt gcaaaatcaa aaataacacc agagtcatat aaaaaaaaaa 480
aaagaa 486

<210> 4935
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069b12d1

<400> 4935

atatgactct ggtgttattt ttgattttgc aaattaaatt acacaatcac agccgtacat 60
cacacatgag ttgggcctct tccaacttaa aagcagagga taacattggc ccatgacgag 120
acacatgcac cacctaataa tcataatttt acatctttac atacaaaata caaagacttt 180
aaatttttaa aagaagaaaa gagataaaca gatcatctta atgaaatgaa accaaaaccc 240
acaaacattg gcttgatttt tgttgttgtt gttgttccca acttgattaa gcatgaaccg 300
tttgattgaa tcacttggac ttgaaggga tggccctgat tacgacctgg tggtagagtg 360

ctgcaagagc tgcaccgatg aatgggtccca cccagaagat ccagtgttca tcccaaccaa 420
ggtccttggt gaagatgata gcagcaccaa gactacgagc aggggttgata 470

<210> 4936
<211> 467
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069c01d1

<400> 4936

caaacataat gtactttaat atatatccaa agggaggaaa gcaacctaac agcacaacac 60
cattgcttca caccagaaaa cacaataatg gaaattctca aaaagtaccc caaaactgct 120
tatttttcat tataagggtta attctggcca tggaagtatg taaatacttc tttcacttta 180
aaattcccca ctggattctt tccatccacc atagctctct tcaggttcag cataatcctg 240
ctcctcattt ttctcaacag taaaagttag agccacctta atctctccac aatattcttc 300
gtccttcaca accttgtaag cagtttctgg aatgctaccc gtttcaaaca ctggatccag 360
atgaatgggt gccacgcaa gacaatcatc ttgactaaag ttgtctttat ccattatctt 420
tagattaagt tcagatgcac tgtcagagac agtgaataga aagctct 467

<210> 4937
<211> 377
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069c02d1

<400> 4937

aaacaagcct taaaagaatt tttttttctc acccaataaa tccaagaaat tctgcaaact 60
gaaaaagggg ttttttacta aagcaaactt aaacaaaaac aacttcccct tatttgcat 120
ctaccggggt aaaacaggaa caaaagccgc tttttgatag aacacacctt tgttttatat 180
tgaacatttt gcacagggtt ttatttttca cagcttttgg aacttaaaat acttgcaaag 240
gttttggaag taccaaactt tttttttctc cctttttttt ggagatgaca aaggggcccg 300
atcatgaaac aataatccac ccccttgga tgaatcttg ttttggggtg ggaacgaggc 360
cccccttttt ttatttt 377

<210> 4938
<211> 419
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069c03d1

<400> 4938

gagagccatg atcacaatta ctactaccat tctccactac acacaaaaat tctcacaacg 60
atgtaatcaa aagaatagta catttttcgaa accacaaatg acactagcta gaggattcat 120
caacagataa caaaacttag ggagggcaca tatttagaat atggcttcac acttatcctg 180
ttgcataatg tatcaatcaa accctggaat ctagggccat gatggtgcta agattcatgg 240
ggtgcatgta ctggtcagag ccagtcatca tctgttggac tatgattcgg ttagctttct 300
ccgatgggtg aaatggatcc caaaacgcgt ataggtctct atttggacac aagttggaaa 360
ggggtgtgca gagtccaacc ccattaaacg ggccttgccc acaacaagct atctttgat 419

<210> 4939
<211> 420
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069c04d1

<400> 4939

caatatgaac aatatacatg aatataagaa atatatgtaa gtacacgcat ggtcagttca 60
tatccgaagg gtcctaacca accacaaaac ggtcgtctca gcggtctgaa gtaaaacgtg 120
ataaacaaca ttataaaact gtaccagcat aagcaatcaa acaaacacaa catatcaata 180
tgacctattg ggtttgaag atgatgaggt tttggatttg gcaaaatcaa caagatcctt 240
gaaaagggca tcttctggct tctgttgttt ggttgggggtg gatgaattca gggagagatt 300
ttgagtttgt cccaccaagc tgtcataaga ggaactggat ccactacttg aatgagatac 360
accttgttgc tcaaaaaact gttgtctttg attatacttt gaaggtgggg gccggatgat 420

<210> 4940
<211> 563
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069c05a1

<400> 4940

ctcgctttct cccccgacga ggaaatcggg ggccacgacg gtgccgagaa gttcgctgac 60
tcctctatct tccaaagtat gaacgttggc gttgttcttg acgaaggtct ggcttctccc 120
gacccccatt accggtcttt ctatgccgaa aggagtcctt ggtggttggg catcaaggcc 180
tttgggtgtc ccggccatgg cgccaagctt tatgataact ctgccatgga gaatctcttt 240
aagagcattg aaagtatccg aagggtccgc tcctcgcagt tcgacttgat caaggccggc 300
ttcaaggccg aaggcgatgt tgtttctgtt aatatggtct ttctcaaggc tggaactcca 360
tctccaactg gttttgtcat gaatttgcag ctttctgaag cagaagctgg atttgatatt 420
cgggtgccac cactgctga tccagaatcg ttggagaggc gcattgctga ggaatgggca 480
cttcatccc gcaatatgtc atttactttc aaccagaggc gcacacacga gataagtctg 540
ggaaaccaat cctcaccaaa act 563

<210> 4941

<211> 385

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069c05d1

<400> 4941

ggaaacaaac atatttgttt cctttttatt ggtatggggc aaaagctaca acaaagtcag 60
gggggggggt atttttcctc tttattggta cataaaaaaa ggccaaaaat gagaattagg 120
tgggggggagg ggccacacca cttgctcata actaattttt ggaggctcca ttttttccat 180
tatcatccaa cgatgcatat accttaatta ttggctcgga aattttaatc cttttcaagg 240
attcattttt gtgcaaaaac tcattgtggt catgtaaaaa aacaggagtg tttgccatag 300
gggaaaatcc aattgctggt aatccacgtt cacggaagta gcgtgaattt gtagcggggg 360
gaaaaacctc gggcttacca agttt 385

<210> 4942

<211> 609

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069c06a1

<400> 4942

ctcgagccga ttctggctcga ggagagagag gagcggagga gagaaaatga cgacgaggtt 60
caagatgaac aggaagaaga gagggccacgt cagcgccggt cacggtcgta tcgggaagca 120
ccgcaagcat cccggtgggtc ggggtaacgc cgggtggcatg caccaccacc gcatcctctt 180
cgacaagtac catcccgggtt tcttcggaaa ggtgggtatg cgctacttcc acaaactccg 240
caacaaattc tactgccccca tcgtcaacat tgataagcta tggtccttcc taccacagga 300
ggccaaggac aaggccaccg ccgacaaggc gccattgctc gatgtcacc agttcgggta 360
ctttaaggct ttgggtaaag gggttttgcc tcagaaccag cctctgggtcg tgaaggccaa 420
gcttgtttcc aagatcgccg agaagaagat caaggaggcc ggcggagccg tcgttctcac 480
cgcttgattc ttttggggta tttttattta caaggatttt gagatctgtc gttatttttg 540
ttttggctct tgcttaatct gctgaactgg attagttaa tgtccctttt atattctcaa 600
ggcctggat 609

<210> 4943

<211> 441

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069c06d1

<400> 4943

aaaaacgata taatccagaa cattgagaat ataaaaaaaa acattttaaac taatccagtt 60
cagacagatt aaaacaagaa ccaaaaccaa aaataacaac agatctcaaa atccttttaa 120
ataaaaatac ccaaaaaaaaa tcaggcgggg agaacgacgg ctccaccggc ctcttgatc 180
tttttctcgg cgatcttgg aacaagcttg gccttcacga ccagaggctg gttctgaggc 240
aaaaccctt taccctaaac cttaaagtaa ccgaactggg tgacatcgag caatggcgcc 300
ttgtcggcgg tggccttgtc cttggccttc tggggtagga gggaccatag cttatcaatg 360
ttgacgatgg ggcagtagaa tttgttgccg agtttgggga gtagcgcata cccacctctt 420
cgaagaaacc gggatggtac t 441

<210> 4944

<211> 557
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220069c07a1

<400> 4944

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cctttctaca ctccatcccc atctgaagtg aaattggaag ttcttaaaga aggttcattt 120
gccattaatt gtttagaggt gtctgtagtg cactggagcg cttgggatga atggagtgtt 180
cttgactttg aatctgaaag cggatacaat ttgacacaga gcatgagggc tgtggcagaa 240
tctatgctgg ttagccactt tggatgaagct atcattgatg agcttttcag ccgttaccaa 300
gaaatcttgg ctgacgtat gtccaaggag aaaactaagt tcatcaatgt taccatatta 360
ttgactagaa aaccataagc aagaagtttg catctaaagt ttctcaaaag gtttgctggt 420
gtaattattg tgactgtttg cttgatttgt tcttctttt ctagcaaatt ataactacga 480
gtattctggg gtacctttgg tagtagagct ttcttttata tattttctcc attctgggta 540
taaataattt attacgt 557

<210> 4945
<211> 424
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069c07d1

<400> 4945

agacgaatca cgtatcgtaa tttcacgtaa taaaatattt tataacagaa tggagaaaat 60
atataaaaga aagctctact accaaaggga caacagaata ctctagtagta taatttgcta 120
gaaaaagaag aacaaatcaa gcaaacagtc acaataatta caacgacaaa ctttttgaga 180
aacttttagat gcaaacttct tgcttatggg tttctagtca ataatatggg aacattgatg 240
aacttagttt tctccttgga catacgatca gccagattt cttggtaacg gctgaaaagc 300
tcatcaatga tagcttcacc aaaggggcta accagcatag attctgccac agccctcatg 360
ctctgtgtca aattgtatcc gctttcagat tcaaagtcaa gaacacttca ttcacccaa 420
gcgc 424

<210> 4946
<211> 540
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220069c08a1

<400> 4946

cttaaagata tgttactttt ttttttctta aaattttgga catttttctt gcaactctta 60
gatcagatag ttgtattttg caagggctaa acgtagtatt aaatgtgtat gacagaagat 120
gtccctttta aaatagctta cttataacaa ggttgatatg gcatctgcat ctattgtgta 180
aggaggcaag tttattgata actggattta tggctataaa atagttatac aaggctccag 240
agtgatttgg aaatagtcag ttgcttagtt tttttaaaca gctttaaatt ttgggggttta 300
agagaaaaga gtttagcaatt acaatctgat ggcagtggaa tcaacggcta agtgctattc 360
tctggttgtc tggattgta cttttgcctg tgcttaaatt ctttgattga aatgtgaacc 420
cccccccacc ccccaaacac aatgggttta aggtttcaat ctaacagtgg aaattgaggt 480
aaaaatatta ttctgagtgt ggtgcaagcc acctatgtac tatttttctt ttacttatgc 540

<210> 4947
<211> 497
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220069c08d1

<400> 4947

ctacgaaata ataacgatgt ttttgaaagt gaaacagaca atacagtata tattgattca 60
gatatgcaag gtcgaaaagt agtgttcaaa cagaagtact aaacatgtgg atatgtaata 120
gtcttcttaa ccgtaggacc tgagagaaaa atacatgtta aaattctctc agtattcaag 180
ggagccaatt gatggtagtc ctgaaacaat ttcattgagaa tctgcaccag tgctattcag 240
cctctgtcct ggacttggac caagggattc cagggcttgt tctcccatct tatggatatc 300
ttcaggtgaa agtatattga tataccatac attattgaca aatgattccc acggatcgtc 360
tccaaggaga agaacatcgt tctccctgtc gacgaatata agctgccagc ctgatctaag 420
aggggtcttct aatttcccct caaataccaa acatctgtgc caactcctcc gcagctcatg 480

ataactgctg aaccggg

497

<210> 4948
<211> 562
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220069c10a1

<400> 4948

ggaaaacgaa tctcaaactt cacaagtgtt tgaggcgcca tggcggatcg gttgacgcgt 60
attgccatcg tcagcaacga caggtgcaag cccaaaaagt gccgccagga gtgcaagaag 120
agttgccccg tcgtcagaac cgggaggttg tgtattgagg ttacttcctc gtccaagatt 180
gctttcattt cggaggaatt gtgtattgga tgcggtatth gtgttaagaa atgtcctttt 240
gaagctattc agattatcaa cttgccgaag gacttggaca gggatactac tcatagatat 300
ggtcctaata cttttaagct gcataggttg ccggttccga ggcccgggca ggtgcttggg 360
ttggttggga ctaatgggat tgggaagtcc accgctctta aagttttggc cgggaaactg 420
aagccgaact tgggtcgatt cactaatccc cctgattggc aggatatttt gacctatttt 480
cgaggatctg aactgcagaa ttatttactc cgattctaga ggatgatttg aaagctatca 540
tcaagcctca gtatgttgac ca 562

<210> 4949
<211> 373
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220069c10d1

<400> 4949

catctaaaaa atgtaaggat ttatttccac gaaaatttaa ccctcaacga caactttttc 60
caaacagaaa acattttttt aaattaagta acagggaagg aacgtaaact ttgttacata 120
ctcaactgaa atgggcgata aactcagtct gacattatga atgttccttt ggacttagga 180
catcgaatga aaaccatgcc caatataaac tcatgtaatt ttcaaattca ccccccaag 240
tcgtagcaaa cctgggggatg agtaactgca ctaaaattaa ggggaaaaat acaaaatgcc 300
ccaaccaaca tagggtttgc aattgcatgc aggctctttt tttttttgag aaagatgctt 360

ttttcggcaa aaa

373

<210> 4950
<211> 565
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220069c12a1

<400> 4950

cagtttcgga cactcactcc cactcgctcc gattaccgca ccattctgcg tcgccattta 60
gggtttcttc gctcctcttt gttggatctt cctcactttg catcgttctc ttcgattcgt 120
aaaatttttc ttgcttctcc tgtcttggtt cgagatccgg gccaaagcaca gaagaatccg 180
tttctgattt gcattttgta ctactgggtt tggcttggtt tttctcttt gtataaatgg 240
cttcgagcga ggggtttctg accgatggcc agagggaact gctaaaaatt gcaagtcaaa 300
atgcggagaa tctgtcttcg tcgccgaagt ctcaagtcgtc cttgctgtct gaccatcatg 360
tgaaagcccc tgctggtggt aaggcacaaa ccgctggaat agctgtgagg catgtgcgtc 420
ggtcacactc gggaaagtat gggaaggtga agaaggatgg tgctggtggt cagggtactc 480
gnggaaaatt gctcgatata gatatcgctt ctacataga cctgcatgat ccatattatg 540
acagtggcga agaaccctat cagct 565

<210> 4951
<211> 394
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069c12d1

<400> 4951

gatactgaaa aatacaatat atgcccttct gaaatacctc ttggtgcaat acaacatcct 60
aaaaagctgt taatggaatg cgaccaactt aactttatac aatggctgag ataacaggaa 120
actctgtcgg tgagatgatt cagggaaaaa agagtaagta aaaggaacaa aaaaataaaa 180
ggatcattag aagccagatt tatccattat ccatattcac cattcgggtg gagctaaagg 240
acaacacaca tgagagaaac aataagacac aaacgtcctc aaaaagctgc tgccgggggt 300

aattaggcat ctgtggcagg tgaatcaaat gagggtagaa gccagccatt cgactgagca 360
tgctccacat agaagccaaa tttctccttt gcgt 394

<210> 4952
<211> 543
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069d01d1

<400> 4952

agaaagctca aaatgatctt ttatttaata ttggaggctg aaaggcctat aagaaacagc 60
cacgtgagaa taaaccgaaa agtcaccaca ggttggggag cacatacaat aaacattgaa 120
caatcagaaa tataaaaagc tcataatgtg ggacaggaac gactaataca aaaggagcaa 180
tacgtaagca aatccaagag agaaagtggg aactaaaagc acatccaaac ccccaccgtg 240
gcttgctgag tcatgcgagt ttggcagcag agaacatcct aagcatgctt agcaaactga 300
tggtgaatgt tggccttgtc agaattggaa agctgcacct ttcggttgctg tgaggacaat 360
atgtaaggat acataacaga gtcctctttg tgagagtgat caagtccaag tagatgccct 420
atctggtgca tcgccgcagt ctccaagtcc aaaactccat catctttaga cagtgtggcg 480
ttttcacttg gaagtaacca gcccatgtta ccgttcagaa gtaccacccc tttcttacta 540
gaa 543

<210> 4953
<211> 423
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069d02d1

<400> 4953

ggagaagact tttttacata ttataaagca aaagataaaa atgtagagaa tcaaccacat 60
gggtagtggt gcagttgttt acaggggttc aaattaatga acaccttaag gaccacatt 120
agacccttga atgtctaaca atcagaacca caacgagaaa aaaaaattat atatagcaca 180
aaatgtaaca tggaaataaa gcaaactata cattgcttac ataaacatgg ttcatgccag 240
ccacacctaa acctccgaat tttgttatat gctttactac ttgccgcac acaaaattct 300

ctcaaccgcg gaggagagaa gcagaaggtc taggataagc agaagccttt ctaggggcat 360
 ctgaaccacc atcgccacca ttggtacggc cggggccgga attgcgtaca tgatgctgtt 420
 tat 423

<210> 4954
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220069d03d1
 <400> 4954

gaggttcaaa caaacaaaat tgaccgttac aacttacagg gtaccactca attcgccatt 60
 ttctcaagta aaagagccaa gtacaagaag ttcacaccat caaaaaccct gctttttacac 120
 agaacaaacc ggcaagcaga atactctctc cctatagaaa ctgctctatc aagtgtgtag 180
 cacggaacac actgccctat acatcattat ttataagaat atgcatagta atgtaaaact 240
 tctaattccc ggattgtcca tcgacactct tgttttctca tctcgcttcc tctgtggcag 300
 cgacaatgaa gacatgactt tggctgaggc cacctttctc gctagtgggt tccacttaag 360
 ataactcttc cttttctctt gctgcattct caattgaaat tgcttgcata agggaa 416

<210> 4955
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220069d04d1
 <400> 4955

gaaataatat acattaattc tcataatata caattaaata atttaaattc tcataataat 60
 aatagtcaaa tagtaattaa ttaaaattca cgatttatta aaaaataatt caccaagaca 120
 gtaacatttt agaggggagg aggaattaat ctccattatt ctctctaca ccaaaacttt 180
 cattttacta aaaataaaaa tcacacaata ctgcacttac aattccatca tcgacgatca 240
 ttcacgggcg gttaaacc aaacgtaaaag aaatgatccg tcaccaatta atctctatat 300
 atttatcaat ttatgggttc gatgacgttg ctaaattgcag aaggagtttg ttgcactggt 360
 ggcatttttt gaggaccgc agctttttcc atgtcagcga taatatt 407

<210> 4956
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220069d05a1

<400> 4956

ngtnantcgg acattctggc attcgacgcg atagaggtgt gattctcttg ctcgtaacga 60
cgagcacagt gatgcgtgtc agtacaagta ggcacagacc tacagagcgt ctattgaggt 120
agcaaggctg tactgagtag gcatcgggta tgctctgtta ctgcccatac taccggtacc 180
gcttgcttca atgtggagct agaaccgtca gtggactgga gcacaatcgc tctgtaaccc 240
tacgggttcca gagaagcctt gctcgcgcag gggggcatgc ggccgtgaag agccttggcg 300
atccggtggc actggcggag cgcctgata gtgacggtct ggtcgggtgat ctgcc 355

<210> 4957
<211> 241
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069d05d1

<400> 4957

cataagatcg agaaggtcaa aaaaaacttt caaaagaatt gggttaaaag cgattaaaat 60
atgagcccaa accgaaaatg acaacgaatc ccattttgct ttttagataa aaatacccca 120
tacaaaacag gcggtgcgaa cgactgttcc accggcctcc ttgaacgaat tattggcgct 180
cttgggatca agtttgggtg ttaacacccg tggctggcct tgaggaaaat ccccttttat 240
c 241

<210> 4958
<211> 579
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069d06a1

<400> 4958

caccgagaaa gtcgtactga ttcctcttca tctttcggtta aagcgagtag ttttcgttct 60

tgatctgttg gttacgatgt cgtattcaag gagatctagg tattctcctt ctccttctcc 120
 ttctccatac aagcgatacg gtaggtctgt gtccaggtct ctctcaatat caagatccag 180
 aagccgttca aggagtttat caagagatgc agaaaatcca ggaaacaatt tgtatgtgac 240
 aggattgtct cctaggatta ccaagagaga actggagaaa cattttgctg ctgaaggaaa 300
 agtgatagat gtccatctgg tagttgatcc ttggacaagg gaatcccgtg ggtttggctt 360
 tgtgacaatg gagactcttg aggaggctga acgatgtgta aagtatctga atcgctctgt 420
 acttgaaggg cgtgtcatca cgggtggagaa ggctaaaaga cgacgtgggc gaacccccac 480
 gccagggagg tatctaggac tgagaactat tcgtgctcga cgtcgctctc cagttactct 540
 cctcgctcgt cttctagcta ttctcccttc agaagaagc 579

<210> 4959
 <211> 481
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069d06d1

<400> 4959

aagggaaagt acgaaattag ataatctata ctgagtaaca taatttcaat ccatactac 60
 atgaaataag atcaggtggt ttttagacaa gtcctgaacg gaaccaaacg aaaactccat 120
 ctagaactgc atacatatac cacactaata tattatccac tataagccta agatgttaag 180
 ccatatagga ccaacaaatt tcaagttgaa ggagaggtag accttggagt atttgacctc 240
 gatactgacg ttgaacttgc attcacactc gagcttcttg agtagcgttt ctcacatttg 300
 ccactcctct tagagcttct tgaatggctc ctccttgacc tgggggacac atttcgtgag 360
 ttgcttctct ttgaaacagg tgtagcactc cgtgagtagc tccttcttga ccttctcctt 420
 ggcttgggtg aggcactccg agaaacagac ctgaacggtg cctttcatat taggatcatc 480
 a 481

<210> 4960
 <211> 637
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220069d07a1

<400> 4960

atggggttggt gccaatcatc gacgttgctg agagtgggag agagggagac tcaccctgaa 60
aaggaaaagg aaaaagacca ccagaggctc tctgaggccg agaaagaggg ctttgatttc 120
tccttctctg agttctcgtt ggctgagctg aaggcggcca ccaacaattt cagctctgac 180
tatatcgtgt ctgagagtgg ggagaaggca cccaaccttg tttacaaggg tcgcctccag 240
aaccatagcc gctggattgc cgtcaagaag ttcagcaagt ctgcttggcc tgatcccaag 300
caattcgtcg aagaggettc cggcgtcggc aagttgcgcc atccaaggct cgctattttg 360
atcggtttct gctgcgacgg cgatgagagg cttctcgttg ccgagtacat gcctaattgat 420
actcttgcca agcatctttt ccactgggaa actcagacta ttgagtgggc tatgcggctg 480
cgagtcgctc tttacatcgn ccaggctttg cattattgca gctctgaggg tcgtcccttg 540
taccatgact tgaatgctta ccgtgttctc ttcgaccagg aaggcgatcc ccgtctctct 600
ttgctttggt ttatgaagaa caccnggatg gtagagt 637

<210> 4961

<211> 477

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069d07d1

<400> 4961

aaaataaaca gaattatgta gattatgaat ttatgcaggc atcacataat atcatgaaca 60
ccatggcctt gaccagtgaag gagttagaat aacctcaata aacacctggt tgacagtaag 120
taaccagta ggcatacaacc aatcaatttc attacaatg gaaaaattac cggatttcct 180
tccaattta gattgcataa gcacagtttt caagttaacc gattcctata agatggtgaa 240
ataaaatgca tgtgccatct actccaccac ttttgtattt ctctgacaca ttttatactc 300
attcaaacgt tagttttgct tccagctca acctttatac agaacttgac acctcaaatt 360
tagccactg cataaaacta tgatcctctc gctcctcttt gcctcttctc ttccaatgca 420
gctgcctcat ttaacatatc agccgcatcc ttgtgcatgt ccagttttgc aagagca 477

<210> 4962

<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069d08a1

<400> 4962

gcactgtttc acagttggat ggtggggcta ttgcagagca tcctttgaat acagttgatt 60
cattgcagat aaaaaatgat ttgaggcatc ctgctacgac ttcaggagat ggtgaagcca 120
tttcatcgag ttgtgtagag aaaagtgggtg atggtagatc tcagataaat agctccccta 180
cagattttctt acaaaatgct gaagggtccat gcttacggcc tgaaatcaaa gaggatactt 240
ctgaaactat attgccagat aaaaaggaga ctaatgtaga cctcggaggt tctgactcta 300
aattaaagtc atgcactttc tctattgatg atgatcagaa ggttgatcac atgaatgagg 360
gaaccattga gaatgaggaa ttgctgggtc caaaagctgt tgcaagtgtt aagtctgaaa 420
atgaatcatg tgaaaagcaa gctgagttat cctcaggcgt ggataatgag aaccagattt 480
gttcaga 487

<210> 4963
<211> 462
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069d08d1

<400> 4963

gaggctaacc tgtgcatata tcaatagcca gaatgtgata agtgacaaaa ttccaaagtc 60
aagactacag caataactat atatgtaaca aaagttgaaa aaaaatgatt taaagaagac 120
aaactagcct caagcttagc cagttcatac atccaatcct ttccttccaa atgctcgaga 180
gcggtattggg ctcggtgctg ttgcagaaca gtcacagtca aacacttgat gccaatcttct 240
ctgattctag gcggcattat cacacctgct ggtttcagtt agatatctac acaggaaaaa 300
catttatctg caagcgacaa tctgggagca gattcataca aaacaactgc atcagaggcc 360
ctgatcgctt tatcaagtca gaacttgaga ggcacattag caacaagggt agcatctttg 420
cttggttgcca tggctaacac tcaaaataat atccccattt tt 462

<210> 4964

<211> 498
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220069d09a1

<400> 4964

ttttgtgctg ccactaataa aactgcactt caacttcaaa ttttcaacct ttccccattc 60
acgtcccttc ttccttccaa tgttcccttc catcataaat tctaataaat ctctgaccca 120
gcaacaacaa agcaaaaggg agaatgggta gcaggaagtt tcaaggcaga gaacttcatt 180
ccagggttg ttataggttt catttttggg ttgttgctgg atttatcaaa gcccggtaga 240
aatcacttgt ccaagaaaat ttgctcatct gccagacctc aacaacagca aatctcagtc 300
tcaagcaatg ctgatcaaga acttaaaatg gttctggctg ttaggcaaga cctaaagatg 360
aaatctggaa agattgcac ccaatgtgct catgctgcca ctggcatgta cgctgaatta 420
atgcaaagt atcggtatct tttgagaaga tgggaacagt gtggccagcc caaaattgtg 480
cgacttgacg gaatcaac 498

<210> 4965
<211> 408
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220069d09d1

<400> 4965

gggacattga taaaaaaaga taatgaactt cctgccttat aaggaaagaa agtttaccba 60
cccctcccaa ttttttaata aaaaaaagtt ttagtattat tccccagccc cttaacagga 120
tgctgaaaac cccttccatt tgagggttaa aacaggaaag gggctctgatt aaaaattatt 180
cctttttaac ccttccaatt tttaaacccc ccttgccctt ttgcattggc cccaataagg 240
gtaagggatc aaaccatgcc ggataacccg ttaaaacaca aaccaagggg caacaagctc 300
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aaaaaatttt gggccaagtc caacaacaag aacggttttt tattcttc 408

<210> 4966
<211> 549
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069d10a1

<400> 4966

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tatggactat cacacaacag ttctgtact gattaccttt gtgagtgcaa ccattattct 120
catattcatt cggagattat tcaaccaaac ctcaagaatca gaatatgcaa agcttccacc 180
agggcctcgt ccatttccta tcataggaaa catcttggaa cttggcacia atccacacat 240
agcactcacc aaattctcaa agatttatgg acctcttatg acttttaaac ttggcagaat 300
aaccaccata gttatctcct ctctcaagt agccaaagaa gtactacttg aaaatgggtca 360
agtcctttct agcagaacaa ttccacattc agtccatgca cttgaccatc acatatactc 420
tactgtgtgg ctgccacat cagctcaatg gaagaacctt aggcgagttt gtgcacaaat 480
atattctctc cacaattgct tgactccact caaatccttc gccaacaaaa gggttaaagat 540
ttattggat 549

<210> 4967

<211> 526

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069d10d1

<400> 4967

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ttccattcaa agttgtgtac aagggatgct actattaaat gcattgtcct gtgagctaata 180
ggcaatcctg ggcatacct tttaccagct ccaaagggtg tgagcttaaa atcgtgacct 240
ttaaatacaa tctcacattt caaaaatctt tcgggcataa aaattgttgg attctcccaa 300
atggttggat ctctgccat ggccacaca tcttgcaaaa atgtgtgcat ttttaggcac 360
attgaagcca gatatgttta ccatttcac acacttatgg ggtactaaaa gtggacctgt 420
gggatgcaag cgaagagctt cctttaccac tgctttgaag aatggcaact ttaatgattt 480
gtgattcttc aaagggtaca atcttttcaa ttgggtttaga taactt 526

<210> 4968
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220069d11a1

<400> 4968

ggctctttca caccaatttt cctatctect cttectcctt ctaattctct tatcttctct 60
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 acaaccactt gtcctaaaat accacaaagg tccccttctt aagggcaaca ttacgctcca 180
 tttgctatgg tacggtacat tcacccccac gcaacgctct atagtcacg acttctcga 240
 atccctaacc tcacgctcat cacctgaatc cccttcagtt tccacgtggt ggaaaaccac 300
 cgagagctac aggggaggcc cctgcaccct cgtcgtaggg aaccaaattc tcgacgagaa 360
 ttactccttc ggaaaatcac tcaaaaacga caacctcgta gctctcgcgt cgaatccgaa 420
 actaaattcg gcgcccggng atcgcgctgt ccacgtcatc ctcaccgctg ctgacgtggc 480
 cgtg 484

<210> 4969
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220069d11d1

<400> 4969

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 aatacaaaaa aaatgactgt ccgaggcaaa cttgcaaatc tctctcttag acacaacttg 120
 caaatttctc tcttctctca cagcacaca aaccacatt ctatcgtcac ttttttttta 180
 attttttaca ctttacattc atctcacacg agtgtcttgc aggtggaggt gagtgggtcc 240
 cacatcgccg gcagaaggaa cttccggccg cgcaccccca ccgcttgta gtcaccccc 300
 gtcgcttct cgcgcagaac gtccccggcg tagcctggat acgnccctt cccgaaaatc 360
 ccggtgcacg ccg 373

<210> 4970
 <211> 607
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069d12a1

<400> 4970

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ccctcctctt cacacatttt cttagctctc tccaacaatc cctctcgttc acactttcag 60
attgtgtgaa gatgggggct ggtggccgaa ctgctgttcc tcctgccaac aggaagtcag 120
aggctgaccc tttgaagcgg gtaccatttg aaaaacctca gtttagtctc agccagatta 180
agaaggccat tccacctcac tgtttccagc gctctgttct ccgctcattc tcctatgttg 240
tttatgacct caccatagcc ttctgcctct attatgttgc caccattac ttccacctcc 300
ttcccggtcc tctctctttc gtggcatggc caatctattg ggctgtccag ggttgcattc 360
ttactggtgt ttgggtcatt gccatgagt gtggcacca tgcattcagt gactaccagc 420
tgcttgatga tattgttggc cttatcctcc actccgctct cctagtcccg tacttttcat 480
ggaaatacag ccatcgccgt caccactcca acacaggttc tcttgagcga gatgaagtat 540
ttgtgcaaaa gcagaagtcc agtatcatgt ggtacttcta atacccttat catccaccag 600
gcagagt 607
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<210> 4971
 <211> 303
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069d12d1

<400> 4971

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aaaaacagaa tatgataaca acttggatgc aagaactgga acaagaataa gcatccccac 60
aatcttgaga aacttagtcg acatgcactg attgcaaac atggggcaat aatcaaactg 120
ttcagagatg ctatatctta ttctgcaaac aaaaacgcta tgctactttc tagatactac 180
taccaacatc agggttcaac aaaattattc ccaataagca agcatgatac taaacagtca 240
caaaggaaag tttaaaccat cccacctgac ggacaagaag cccccggcta cattaatcat 300
cac 303
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<210> 4972
<211> 356
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069e01d1

<400> 4972

ccccacaaa aggggtttta tatttgggcc ataaaaagaa tcccggcctt ccaggatgcc 60
aaaagctttt agggaacaag accctttttt ttaagggggg ttttaacagg gggccctcca 120
aactaaaata aagctcccga aatgttaact taggaaccct tttgggccca atttttatac 180
ttggcaccct ttaaaccag taccctgggg gaactttgct gaaacgggaa tcccttgag 240
ctttgaaaac aagaactccc ggggtagctt ttctagaaag ggtcttatca aaaccaacg 300
aaatacccat gaaataaaga ggggtctatg taccctcgaa caaaaatgcc taaact 356

<210> 4973
<211> 467
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069e02d1

<400> 4973

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tttcatacaa acaaaactaaa aaatcctccg caccgcactg ttacctatcc tcaatatgtc 120
aacagcggga atgaaaagat agattatata ttaatgtctt ttaaaaatgg aaggatcacg 180
tcctatccta taatacaatg ccttattcca acatgctagc ccattgcata cttctgagtc 240
cagtccttag cagttgtttc atacttgac ctgtctgtct tgtacatatg agcaatttca 300
ggcaccaagg ggtcatctgg gtttggatcg gtcaataggg agcaaagga gagcaacacc 360
ttagatattg tcaatgctgg gctccactgt tcctttaaga tatcaagaca aatactacca 420
ttgctgttga tatttgggtg gaaaaactta gtccataatg caacctt 467

<210> 4974
<211> 344
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069e03d1

<400> 4974

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt ttttccccca agcccttttg ggggggggga 120
aaccccccg taaaaaaaaa tttttaccaa cggaaccggg ggggtccctt atgaaaggga 180
cggaacaaac ttttttcaaa gggaaaacaa aacccaatth tggcctttcc ccctaagaaa 240
acaggtccaa cgggaaaaaa atgaaaacgg gaaccaaggg aaaagggggg ggggtcggct 300
aacttcccc caaaaaaaaa actttttttt ttatgggggg gggg 344

<210> 4975

<211> 467

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069e04d1

<400> 4975

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tagtaaatga gtgacatatt ttcactcatc cttctcaaac tctatcttta tgttctgaat 120
tgtgatgctt acattctcag atcgtggtac caatgtgacc aaaacactat catcattttc 180
agcatccaag tcctctaaca aatctgttat tcccagtgtc aagctagttt tgatcttctt 240
gtccatgttc atgttcgaat gggaatgacc cagagtcgaa aagcttcttg caaactctgt 300
gctctctggt ccaatatcct cgacatcttc atcagtaata tagacatcaa acttcacatt 360
atcatcccca tcaaactcaa tcccatcaat caccaacact tcttctctt cctccttgct 420
cctcttgctc ctcaactgct ttggcctttt aactagtagg gttacct 467

<210> 4976

<211> 509

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069e05a1

<400> 4976

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aaccatttc aattcaccct tccaatcggt caacgcaccc ttcaatttcg cttccgagtg 120
attcctcccc ccaaattcag aattaagggt cgggtctctgg tggcgcaacc atgccggaga 180
tcggccaggc ggcgggtggct gcggcggcgg atgacaccgc cctgttcgga aaatacgagc 240
tgggccgcat cctcgggtgc ggcgccttcg ccaaagtcca ctacgcgcgc aacgtgcaaa 300
cggggcagag cgtggccgtg aaaatcatca aaaaaaaaa actcgccgga actggcctcg 360
ccggaacgt gaagcgcgaa atcacgatca tgagcaagct ccaccacccc cacatcgtgc 420
gccttcacga ggtcctcgcc accaagacca aaatcttctt cattatggac ttcgtacgcg 480
gccgcgagct gttcgggaaa atctcaagg 509

<210> 4977
<211> 484
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220069e05d1
<400> 4977

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tgttcctggt tttcttcttg atgttggtgt tcttcttctt gatgttggtg ttcacctca 120
ctactattac tatacgacgt gggtgcacca ccaagcaaca atgggttcaa cctctcctcc 180
cacacacccc tcaccgggc gtcgcctccc ctcttcctta cctccaccac cgcgagctcc 240
gccgtgagcc ggtaaacctc caccccaatc ccaaacctcc cattaatatc ttccaactcc 300
acccacact ccttctttca cctcacgncc atcctcggcg nncgccccgc cttcttcgcc 360
gncttcaaaa ccctctccgg cggctccgc gtnaccaacc tctcccccca ctcccccca 420
aacatcccgg acanatccaa ccccgaagaa aaagatatca aatcaaaagc gttcaaattc 480
acca 484

<210> 4978
<211> 373
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220069e06a1
<400> 4978

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 agatggtgtg aaattgtgaa ttctcgtctc tgcctgctcg acaacttcgt tcgtatatgt 120
 tcttttttatt caagttattt attgttgtga atgtctggga gtgaacagat tcttgagtga 180
 gtatttaaac tgtaagatat gggaagataa aattcaaata aagccattta tggcctatgg 240
 ggcgtgtaaa taatacccta ggaagtttgt aattatagtt catggatatt tctttgcaat 300
 tcttaacatt gtgtttggtc agaagtgtaa acaaaaaatt tgaaaaaaaa atagaaaata 360
 aagttatttt att 373

<210> 4979
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220069e06d1
 <400> 4979

aataaaataa ctttattttc tatttttttt tcaaattttt tgtttacact tctgaccaa 60
 cacaatgtta agaattgcaa agaaatatcc atgaactata attacaaact tcctagggta 120
 ttatttacac gccccatagg ccataaatgg ctttatttga attttatctt cccatatctt 180
 acagtttaaa tactcactca agaatctggt cactcccaga cattcacaac aataaataac 240
 ttgaataaaa agaacatata cgaacgaagt tgctgagcag gcagagacga gaattcaca 300
 tttcacacca tctggacca aataccgtgg cttggaactt cttgatggac cacaacagc 360
 agatagaaac ccg 373

<210> 4980
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220069e07a1
 <400> 4980

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 cttacaattt tattttgctt ctcttccttg gagaagagtt ttgcctttca aacaacaaag 120
 gaggacacag aaagcaacaa tcttcatcaa tatactcatc ttgttcacct cagctcactc 180

cttccttcat cttcctgcag ctcttctgcc aaagggtccca aaagaaaagc atcattagaa 240
 gtggtacaca aacatggggc atgctcccaa ctgaataatc atgatggcaa agcaaagtct 300
 acaacaccac acagtgagat tctgaaccaa gacaaagaaa gggttaagta cattaactca 360
 aggatctcaa agaacttggg ccaagatagt agtgtgagtg aattggactc agttacacta 420
 ccagccaagt ctggtagcct tattgggtct gggaattact ttgtggctgc tggctcttga 480
 acaccaaga gggactttgc actcatcttt gacactggca gtgat 525

<210> 4981
 <211> 396
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069e07d1

<400> 4981

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 gcgggggtcc tttttttttc cccccttaca atggggccaag gggaggccac cggcgggggg 120
 ggggggaaaa tatccccccc cccttttttt tttggggccc aaactttttt ttttttaacc 180
 ccccccttgg ggggtccctt ttttttttag gggccggggg cccccccctt gggaaaaagg 240
 gggccccctt ttttttgga ggcccggggc caaaaagag gggttttttt ttcccccccc 300
 caaagggttg ggttaatttt aaatgtgggg gggccccaga acaaaaccaa attttttccc 360
 cccaacaaa aaaccaaacc tttttgggtt tggggg 396

<210> 4982
 <211> 135
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069e08a1

<400> 4982

cgaccttatt ttttacatta tcttttaa at cataggttct caataaacac attgacctaa 60
 agcgctacat ctacaacata caggaggagc aatacttgag cccgatctat cacccaagat 120
 cttgaaagtc aattt 135

<210> 4983
<211> 151
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069e08d1

<400> 4983

gtgggttcttg ttgtcttatt ttttcttctg tctttaaatt agtttcaaaa taaggggtct 60
ttctgatttt ttgcaatcta tatttttcta ttaattttt taaattcgta atttttattt 120
tgcgcatata taaatattaa atttattatt a 151

<210> 4984
<211> 566
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220069e09a1

<400> 4984

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agaaaaacac aagatgggtt attggaagtc taaggttctt cccaagatca agaaggtttt 120
cgagaagaat aagcaccaag aaagctgctg ctgctgaggc caccaagtcc tttgatgagt 180
caaaggagga atacaacaaa gcctttgaag aaaagaagac tgaacttcaa accaaagttg 240
ttgaaatata tgaggcttca tcaactgaaa tcaagagttt ggtaaagaa cccaaggaag 300
ctggtttgaa gaagaactcc acagaagtcc agaagttcct agaagagctg gttaaaattg 360
atttccttgg atcaaaggcg gcacttgaag catcttcaaa gtttggacca gccttggtt 420
caggttcagt tntctttgtg tttgagaagg tgtccactnt cattgctaca gaagaaaaag 480
aagttgaagc ccctcctgca gtagaaacta aaacagaaga agaaacagta gtgtngtcaa 540
agagagggag acagtgggtt aagaag 566

<210> 4985
<211> 415
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069e09d1

<400> 4985

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atcataaaaa cattaattga catgcatatc aatcaccaaa tctgcaacaa tatcaaacta 120

agcagcacaa aaccaatttt acacaggaat aaaagaataa gggaatggta tgtgacaatt 180

ttggactatt tgcaaaactaa aaatgcccggt atatgatctt ctgcatcttc atgaagcagc 240

tacatatata tagcttctgt tcaaaacgaa attttcaagg ctttgggggt tctgctgggt 300

caacaggttt ttcttcctct ttagcagcag tctcagcttg tttttcttcc acttttttct 360

catcacttgc ctgcctgct tggggatttt cctcttcctt tttttcttct tcaac 415

<210> 4986

<211> 612

<212> DNA

<213> Glycine max

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<400> 4986

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gagtgggtact ttttagccc aagagacagg aagtaccga atgggttcacg accaaacaga 120

gtcgcgggtt ctgggtattg gaaagcaact ggaacagaca agatcatcac cactgaaggt 180

agaaaagttg gcataaaaaa agcacttggt ttctacattg gcaaagcacc caaaggctcc 240

aaaaccaatt ggatcatgca cgagtatcgc cttctcgatt cttcccgcaa acacaacctc 300

ggaaccgcaa agcttgatga ttgggttcta tgctgtatct ataagaagaa ctcaagttca 360

caaaggttga ggctaatttt ttggctatgg aatgcagcaa tgggtcatca ctttcttcat 420

cgteccacgt ggatgacatg ctgggatcgt tgccggagat aaatgaccgg tgcttcaccc 480

tgccacgagt gaactcactc agaacaatgc accagcagga tgagaaattc gggctctcga 540

catgggatcc ggtttttctc gatcgggttac ttgaccagaa aaccaagaa tgggaatatg 600

atgcatgact tt 612

<210> 4987

<211> 434

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069e10d1

<400> 4987

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acactagcca aataaaaata ccaatatcta aagttctaaa ctaaactttg gaaaatagtt 120
gctatgtatt aatgctttga agcacaacgt gattcatggt taggcaataa tgtcttacia 180
agcaattact tttcaacatg cattgtttgtg gttggggggc aatcaccatt gcgtcctttc 240
ttagtttcat aatgggtcaa cgcgccttta tcttgttcta gccgaaaagt atgacaaaaa 300
ttgcaatttt tcctttccaa gggggaatca ataacacaaa ccataacaat ggtcatagaa 360
ttcaaattaa actaaaatcc ccaatttttt acacaattac actttttgat ccttcacttt 420
acttcctaac cccg 434

<210> 4988

<211> 550

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069e11a1

<400> 4988

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tcaaggctaa agcatgaaaa cggtgtcgag cttgttaact attgtgttga tggtcctttc 120
cgtgccttg cctacgagta tgctcctaaa ggatcccttc acgatattct acatggacgc 180
aaaggtgtca aggggtgcaca acctgggtcca gttctctcat gggctcagag agttaaatt 240
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cttgggacct ttggttatca tgctccagaa tatgcaatga ctggacatct cacttaaaaa 480
gtgatgttta tagctctgga gttatactgc tggaactctt aaacgggcgt aaaccagtgg 540
atcatacact 550

<210> 4989

<211> 436

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069e11d1

<400> 4989

ggagaaaaaa cctttttttg aaatagtaaa gcaactagac atgtgatgta catgacaagt 60
aatattataa attcacttgt acacgggtta ttggaaaaac aaacaaaca atccaaatta 120
agttttcaaa ccataaactt aaccatttat gataggctct tgccacctac catcactatt 180
ttttttatat cagctataac atgcttagtt gagatacaaa ttttaataacg caaaatatac 240
tttaatacta tatgcttcaa attatgtaat actgacacgt gtcacaagga caattgggtca 300
acgcactcca gtctgaaaga agaaatgaat gatttttgaa tttacatggt tttattacat 360
cttgggtgct tcctttgagt gaacagaacg agtattcagt agaggctgta gagctttcac 420
tataatgctc atattt 436

<210> 4990

<211> 547

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069f01d1

<400> 4990

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aagaataaga atcaaaatta aaatcaaata aactggatac caaccataag gcccgcgacc 120
tggtatacga aactttcatt acattaatgg gttgttggtc atagggtggg agagaaacaa 180
ctatgtacag caacaactac aaggtgggat tgtttttaaaa aaaaaaaaaa gcaagggtcga 240
tatcacccta tatcacctca ctcaaaaaca caattgatta aatactaggg attgtataac 300
tgggcaggca tatactacta attccgggat ttccaaaatt ggacggatac tactctttta 360
atgccatctt atatatttga tttgaagcag tcaactgataa gcagcagtca gcctcgattt 420
catcttcaag ttatgttttc caactggatg gatggcttca tgacagttcc ttactttcca 480
tcccagaatc tgaaagctat ggaaatcaat ctactaatca taggcgtcag gccattttctg 540
aattgac 547

<210> 4991

<211> 477
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069f02d1

<400> 4991

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ccaatacaaaa cattgatcca gtaacttgga ggatacaaaa caatgcgctg aattttcaag 120
tatcgacaca tgtcatttgt tccctatagc ttattgcaca tagttgacgg tgagcctttc 180
ttttttattc tcttgagtcc tgaccacata aagaatacca atcttgaatt gatgctcctg 240
tattctacca tgactcattt tcaattcctg tttttgttac acaacacttg ctttagccat 300
tcttttctgg ccccgagtag ctagtagctc agaatcctgt acaatagcct gtgcacaaaag 360
cttcccagaa agaacagcgc cttccattga agctaaatat ttttgttttg tgtaatctcc 420
agctaaatag aaaccttcta aaggagatct ttgtaaggga cgacaagggt cacaatt 477

<210> 4992
<211> 330
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069f03d1

<400> 4992

aaaattgaac tacaagtgtt ctttatgctt ctatggataa aaataaatta caaaatctcc 60
cctttattca gtatcagaat ctgggtctcc atccacaata tcaggaaaat catcttcac 120
cgccagtgcc ttatcatgtt ccaattgaaa agcaaattcc tcaaaaatat tagagcctga 180
ggttctatgc cataaactac tactcggaga agagaatttg aagtctttat taaccgagct 240
tccatgtctt gattccatat gactggcttc attatgagga atggagttgt ctgaaacaat 300
cttctcagac actttatcat cagctacatc 330

<210> 4993
<211> 96
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069f04d1

<400> 4993

aaccaataaa tttgagacat ctacttctat agtgaaaata cggactacaa atcagtttca 60
aatgacaacc atcaaatttg gaacatacat ttaaac 96

<210> 4994

<211> 510

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069f05a1

<400> 4994

agcgccacca ccattatact ctctgttgct aatcatggct agcaaattgg ccttcacact 60
gacatacccg cttccactta caccaatctc ttcttgtcc tctcttctg cttctcgact 120
ccaccttctt caattcaatg gccgccacat atgccttcgc cctcggtat ttctgttttc 180
tcccatggcc acagccgac aagacaagg tggagaagat gctgccgttg ttgatagtaa 240
aatcctacaa tattgtagca tagacaaaaa agagaagaaa tcagttgggtg aaatggagca 300
agaatttcta caggcactgc aagcattcta ttatgagggg aaggctatta tgtcaaatga 360
ggaatttgat aatcttaagg aagaactcat gtgggaaggg agcaccgttg tgatgctaag 420
ttctgatgag caaaaatttc tggaagcgtc tatggcttat gtgtctggaa aaccaatctt 480
gagcgacatg agtctgatga gttgaaactc 510

<210> 4995

<211> 342

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069f05d1

<400> 4995

aaaaaaaaatct tttttttttt tttttttttt tccccccccc taaaaaaaaa aagggggccc 60
ccccaaaaaa aggcaaaagc cccaaagggg cccccaaaaa ccaaccctg gaaaaaaaaa 120
aggcccccaa aaaattaaac cacaggggga aaaccccccc cctacaaaaa aaaagggggg 180
ccccaaaaaac ccccccaaaa aaaagggggg ggggaaaagg aacacacggt ttcggggccc 240
aaaaaaaaaaa aaatgcccaa aacctccaac gggggggggg cacattcaaa aaaaaggaaa 300

catgccccaa aacggcaccc cattaaaacc gccccccccc cg

342

<210> 4996
<211> 581
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069f06a1

<400> 4996

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agttgcgaga gagtattggg tctgaaagag tagcacaaat cctcagaaga tcaccaagggt 120
caagtcaaaa aagtatggac aatgggtcaag caaacactag tcaatataca gtcagaaagg 180
atgacataaa cattggccac agggatgaca gtccaccaga gggaaacact gctgcatttc 240
agactattaa gaggaagggtc aagacacctc agaaacatga gaaaaataat tatgaaggag 300
aggcattgaa agcccgaaag tcacctagag atttaagcaa gaaaaatgct caaggagatg 360
caggtgaatg gacagcaggc aagaagactg ataaccattc aagcaacagc aaaaatgtga 420
aggtcagcaa tattcctcag tcagtgggag catcatgtta tggctttaag aaagaaaaat 480
ctgaagagat gtttcagtgt ggccagatat gggcaatata tggatgatagg gatcatatgc 540
ctgatactta tgctccaata agatgattga atgcactcct a 581

<210> 4997
<211> 175
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069f06d1

<400> 4997

aacataatat ctgttgtaac aaaataaaaa aacagaggga aaaaaacacg aaaaaaaagg 60
acaaggggga caaaaaaggc aaaaaccag caaaaggaa agagagaacc aaaaactgat 120
gaaggaacaa gccaggacaa caaagggaga agaagaaaaa cagtgagggg aaaaa 175

<210> 4998
<211> 508
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069f07a1

<400> 4998

actcataaca caaagcacia agcaaagctc atccttgagt taaaaaatgg cagcagcttc 60
ttccatggct ctctcatccc catccttggc tggcaaggcc gtgaagctgg gcccatcagc 120
cccagaagtg ggaaggggtga gcatgaggaa gaccgtcacc aagcaggtct cctcaggaag 180
cccatggtac ggcccagacc gagtcaagta cttggggccca ttctctggcg agcccccgtc 240
ctacctaacg ggcgagttcc caggcgacta cggctgggac actgctgggc tttccgcaga 300
cccagaaacc ttcgccaaga accgtgaact cgaagtgatc cactccaggt gggccatgct 360
cggagccttg ggctgcgtct tcccggagtt gctgtccgc aacgggggtga agttcggaga 420
agccgtgtgg ttcaaggccc ggtcccagat cttcagcgag ggtgggctcg actacttggg 480
cacccaagcc tgatccacgc tcagagca 508

<210> 4999

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069f07d1

<400> 4999

gtaaaaagca agtaacatta agttggattc ggatacacia gataattcac attatctgaa 60
gtacttcacc aaacacaaat ctaaaaactc tcaaaagtca tttcgttctt tgacgctcac 120
tttccgggga cgaagttggt ggcataggcc caggcgttgt tgttgacagg gtcagcaagg 180
tgatcggcga ggttctccaa tggacccttt ccggtgacaa tggcctgaac aaagaagcca 240
aacatagaga acatggccaa tcgtccgttc ttgagttcct tcaccttaag ctcagcaaaa 300
gcctctgggt catcagcaag gcccaatggg tcgaagctgc cacctgggta gattgggtca 360
gtgacctcac cgagggggcc accagcaata cggttacctt caacggcacc cattaggata 420
acttgtgtgg ccagatggc gaggatgctc tgggcgtgga tcaggcttgg 470

<210> 5000

<211> 556

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220069f08a1

<400> 5000

aatgcccact tttttttcttc caacgctcct cctccttctc atagccttcg ccacctctgt 60
ctccggccgc cgtgacctcg tcggagactt tctccggctg ccctccgaaa ctgataacga 120
cgacaacttc aagggcaccg ggtgggcccgt cctcctcgcc ggttccaatg gttactggaa 180
ttacagacat caggetgatg tttgtcacgc ctatcaaata ttgaggaaag gtggtctgaa 240
agaagaaaat attattgttt ttatgtatga tgacattgca ttcaatgggg aaaaccaag 300
gcctggagtc atcattaaca aaccagatgg aggtgatggt tataaaggag ttccaaagga 360
ttacaccggc gaagatgtta ctgttgataa cttttttgct gctttacttg gaaataagtc 420
agcactgact ggtggcagtg ggaaggttgt ggacagtggc cctgatgatc atatatttgt 480
atactatact gaccatggag ggtctggggg gctcgggatg cctgctgggc cctacttata 540
cgctgatgat ccgatg 556

<210> 5001

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220069f08d1

<400> 5001

gaataaaaac acacatcata ttactatgtg ttgtcatata tgcattgtaa tgagtggata 60
ttccaaagca attggtccct ttatccctcc ttaatcctta tgccgtaa at ggcaccatcc 120
cttgtaaatt gtaattgctt cttcagaaat agaattatac aaaggtagtt gcaatatcta 180
tttgccaaac tataaatgta aagacccttc ttcccaatcc tagtagtgct ccaattgtat 240
ttacaaaggt gggacaagat atgtatatac aagtacaacc atgtaacata atgtaacaat 300
aatcatactt tggctctttac tagtgcacat tacagggagt tattatgcac tgaaaccctc 360
ttgcagagaa ctccagggat tggaaggaat actgacacaa gcttgtgctg aagcctcagc 420
catttgttca ttctttatcc ctacattgca gatgtttgca aaggacctca tgtgtttcat 480
cccgatttga gacaaggat 499

<210> 5002

<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069f09a1

<400> 5002

taacaattga agagtgtttg acgactcaga gagcacattg cattggcgac accgcgagcg 60
acgacggaaa ttgaattgct cgtgcgcgtc ggtgcgtgat cgatcgaagg acgaacgatg 120
tcggagatgg cgagcccaga tcccagagga ctcgacggag tccgcatgac gtggaacgtg 180
tggtcccgta cgaaggttga atcgagcaag tgcgtgatcc ctctggcggc gacgggtggct 240
ctgatccgtc cccaccctga catccccgc ctccagtacg cccctctccg ctgcaagacc 300
tgctcctccg cctcaaccc tttctccgc gtcgacttca ccgccaagat ctggatctgc 360
cccttctgct accagcgcaa ccacttcccc cctcactacc acgccatctc cctatctaca 420
attccctgaa ccctttaccc gtcttactct tctgctaga cacctgcctc atcgacgagg 480
agattcactt cctcaaatgc gtgcttcgtc gtg 513

<210> 5003
<211> 401
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069f09d1

<400> 5003

aaaagtatcc atttccatag agatgagtc tatacgctta attcacaata tacaatacaa 60
aacagtaaca agagaatgat atcaaactca acatgacaaa atggctttcg ttactttgct 120
acctggggaa catataaaag taaaagaact atataaatta atccagctga ggaacccaaa 180
ttttcagatc tgggccaaga caaatggaaa aactgagtca aaaatatctc cctcatttgc 240
tattatgctg ctgtagcagt ggtgggggct cttaactcga ttttctatcc tttctttccg 300
caatacccaa acttaacaac atacttttga accctttatt ttctccacaa agaaaaatcg 360
atcagaaccc taaagaatta tgtttttaggt ctctcttatt c 401

<210> 5004
<211> 553
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220069f10a1

<400> 5004

gttcttatat tcaattcagg tcaactggtg acacggacta agctttttga cgtgggctgg 60
tattttcagg ttgataactc actgaagctt ggaatgacaa ttaactctgg tttcaacaca 120
gctttactca cctgcgcac tgggtagag agtacaatta acacaaacag gacaagagta 180
ttttccgca ccttcgaatc atctcattgg agtggacaga atcacaattc ttgcaaagtg 240
actaaaaggc cttggaagag aactaatcgc aaagagagaa acccaatttc aaatatgatc 300
aataaagttg tcaaaagcat gagtgctcca gtaacagtta tgcattgttac accaatgact 360
gcatatagaa gtgatggaca cgtgggcact tggagtgacc agccatctgt tcctgattgt 420
agccattggt gcttaccogg tgttcctgat atgtggaacg aaattctact ctcgtatctg 480
ctacaaaaat aaggagcana ttagcatgag aggtaccaac atgttagacc ttatatcatt 540
taagccttat ata 553

<210> 5005

<211> 423

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220069f10d1

<400> 5005

gtgaatgccaa attatttgaa atcactatac aaacattatt cattttccaat gtacatttgg 60
tacccccogg tgacgttaaa ggctaacagg ttaatcctga ttgctgagta caattgagta 120
ccaagctata tatggcttaa atgatataag gtctaactg ttggtacctc tcattgctaat 180
ttgctcctta ttttggtagc aaatacgaga ggagaatttc gttccacata tcaggaacac 240
cgggtaagca ccaatggcta caatcaggaa cagatggctg gtcactccaa gtgcccacgt 300
gtccatcact tatatatgca gtcattggtg taacatgcat tactgttact ggagcactca 360
tgcttttgac aactctattg atcatatttg aaattgggtt tctctttttg cgattagtgc 420
tct 423

<210> 5006
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220069f11a1

<400> 5006

caaaaaacag attactagaa gcactatcaa aaatgtggca acaagaggca gcttcaagag 60
ctgcaatgga aaatggaacg gaggaaggac ttggagactc ttctgaatca gttcctgctg 120
cttttctca agacacgcga atggaggaaa ctcatgaacc tgtaggaac aatccccctc 180
ccattgctcg gcgctaccaa gatcagatgg ttccaagcat cacttcttcc ttgttgagag 240
tggaagagga agaaacgtct tctgatcttc gaaactcagc agaagagagc agcagagctg 300
aagtgccagt aactgcaaat gcacaacaaa atgcaggagt tgcattgaac gaacggatgt 360
tgcagaccac taataggaat acacaaaccc aatacaatac tacgatggac ctgagaaatg 420
tagctgatga ttctgcagta gaatcttcaa gtggtaccag gagagaaagg gatggaggct 480
tagttccagt atggtctcca ccagcttcca gntactcaga ac 522

<210> 5007
<211> 496
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220069f11d1

<400> 5007

aaataaagct cggatcataa ttaatatatc cgccttaagt gaaagcacia atctgagttt 60
attagcagac caaagatcct atgggggctc tttctccctc actacacaaa ctatactata 120
cagcaagttg caaatattgt acaagaaagc aatagggact gcagatgaac ttccgtatga 180
attgaaattt ccatacacat tggagggtcag ctactgataa aagagtagga aattaaaca 240
tgtgtgtcca atgtggcttc aacacccac tttctctcaa gtctcaacag aagagtggta 300
tcgtaacttc cacctccctc catctagtct aattgcttta tatatgaatt acccagtttg 360
aggtagctgc ttccaattca gcatttggtg agattgagga tgcctttgca agtaagatga 420
actgcttggt ataccatttt catctcctac aaattgttct gagtaacttg gagctgggtg 480

agaccatact ggaact

496

<210> 5008
<211> 337
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069f12a1

<400> 5008

cccgccctccc caccggcccc aggcagcgag gaaattgaat tgggtgcccc cgtgcccgt 60
cctgctaattg aagtggccgt tgaggagcct gttccagctg agaccaccac tagcatcgcc 120
tctaccctta gagtgccctgc tatcattgtt gtcacgcta gcttcttcgc cttctaagct 180
gctacctttt acgagctttt cttatatgtg ttgtgttaca ccaccttgag tgttgtgttt 240
gtgaaatgac tgttgtgttat tgaatgaatg aattaactta aaaaaaaaaa aaaaaaagaa 300
taaaaataaa aaaaaaaaaa aaataaaata agataag 337

<210> 5009
<211> 266
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069f12d1

<400> 5009

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aaaaaagctc ggaaaggggg gcccccttaa aggggaaaaa acttgggatg acaacaatgt 120
ttggggggccc ttttaggggg ggggggattc ttgggggggg tttaggggga aaagggtcct 180
taaggggcct tttttataa gggggggggc cgggggcccc caaataaatt tcctcccttc 240
ccggggcccg gggggggggg ggcttt 266

<210> 5010
<211> 482
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069g02d1

<400> 5010

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gttctacagt acagcccaga ttcctcctct caatactttt ttagcaaaca ttgaaccttg 120
gaacaggcta caagcttggt gacttggtgt cattaacgtc tatagggtgt ttgagtcaat 180
actttcatta tttacaaatt ccatagcgga gaagtgggcg gtggctgcat gtctgaaact 240
cgttttgggt accaaattat gtacgtgtga attaatcaac aattaacctt tgaaatgatg 300
aaccacaatg tataatggaa cctacactcg agggattagt tgctgttggt agtttatgat 360
tggacttgcc atttaaaaaa ttgggatcgg tttacgaagt aacttaacca gaacggcaaa 420
acatgatccg gaaaatttcc aaagatcatt attggcgctt cctttgatac agcgaataac 480
ca 482

<210> 5011
<211> 407
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220069g03d1
<400> 5011

cgacactcaa actttcaaact actttatttg atatacttac caacgagtta acagataaaa 60
tgccacaaga ccttgaagta tcaaaaaaat tgcccaccta cgaacaatag atctcaattt 120
catttggaag ggatecatag gatttgcccc ttaggacatt cattcccagt tctatattga 180
tattagaaat tttgcttcaa cgccatgaaa ttattggaaa aaagagtctc cctttccttt 240
ctcacctttt tggatgcat aatccccat aatgacaaaa aaatttaact tattctatga 300
gaacatagta tgcctaata gttgtccaag gatcgctctc tgcaatgact tcagaagggt 360
cataaacttc tggctctgaa ctttcttcac ttgtgcttga atcagca 407

<210> 5012
<211> 526
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220069g04d1
<400> 5012

gagaagtggc cttcattaaa aatgtaatat gtagatacag aaccaacaag gagataagtg 60

gggaaacaag aggaaatatg tttcatgggg aagtttgtga ggaagagaat gatatagaag 120
 ttacagagaa gagaggagga aaaaagcttt atgaacattg tggataaaat tcagatatct 180
 gcttgctcag aagtaggttt catagcagac acacactaag aggcataataa ctagaaatga 240
 ctttcaaatt ttttcatcca ttgagatatc ccactttttc gatcaaagcc tggatatcag 300
 caccgctact cccctcagtt gcctcgacga tgttggggct gtccaatggc gtgacatctg 360
 aaagagggtg gcttctgtta ttatggagtt gactgattgc actgcttccc actcccttca 420
 gtatgacact tttgtgtagg ccaccaagaa gtccttcgta atctgtgtca ccgcattctc 480
 caacgaacac caccatcttt gacagttcan aaccccatcg aacata 526

<210> 5013
 <211> 580
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220069g05a1
 <400> 5013

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 gacctcgccg tcgttctctt ccacccgcac catgcggaga ttcaccttat cgcacaggga 120
 gtcgccacgc gctgcaccaa gatcgaaccc tcttcaaact ccagaaactc cgtgtatttc 180
 cgacaggtgt tcgcggcggt cgtgaagcgc gtggatttta aggttgtgaa gcgcgtgggtg 240
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 gtgatgggtg accgggcggt gatggagttg gtgaaggaca agaaggtggc ggcgtttaga 420
 gagttgtggg agatggtgtg cgacgattcg gaccgcgcgt gttatggacc tgcggaggtg 480
 gagcgtgcgc gtgagatgaa ggccattgag acatttctga taaccgatga tctttatagg 540
 gacgaagatt gtgagacgag aaaaagtacg cgagtttgtg 580

<210> 5014
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220069g05d1

<400> 5014

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tgctgtagca acgacaattc acattctccc tggcttcac cggagattat ataatcaaca 120
attggcgaaa ttaaaaagac attaattaaa catgacaaac aaataactaa aaccaatatg 180
tacaataaat cagcaccat ttacatcttc gagttcaggc aagggaaacc tgagaattgc 240
cgcaacaccc gtgagttgag cgagttgcgg tgcataaaca tgcacgacg aatacaccaa 300
agcctttcct tcacctctt tcaccgactt caccaaactc gcggaacttt ttctcgtctc 360
aacatcttcg ttcctataaa gatca 385

<210> 5015

<211> 385

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069g06a1

<400> 5015

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agatcgtaca tcgatgggaa aagcgctatg aactaatgag gacgattgat caatatcgag 120
cgtggcatta gtatcaatag aagaaattca tgggcttaac gagactaact catctgcttc 180
agacgtttca tggtttcac acttccattt caggttttcc ggatcttgac ttggaataag 240
atcatagagg ctcttagatg cttggattgt acctctgggt ggaggaaact ttgtgtattt 300
ttaagaatt gacaagggt aatgccaatg gatataagg atagtctta tgcacctgaa 360
agtaccagat cttacctta ccta 385

<210> 5016

<211> 275

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069g06d1

<400> 5016

attacaagga caaacatttt cctgaagccc aacagtaatg gttattttta gcccattt 60
tcagaaacct tgggaaatat ggctcaaaaa ttcaaaaac tccaaccacc ttaattccct 120

gacgtattta taaaccttgc taaaacgctg aagggggaag aaaaaagcta accccgaaca 180
attataaatc aaatttgccc cattgtctca gctctggggg aaggtctcgc cgacttcggg 240
cccacatgtg gtctattatt agaggccccc tttgg 275

<210> 5017
<211> 545
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220069g07a1
<400> 5017

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aatcgctcac tattgatccg attccaccgt catcgatctt ttctgcagcc accgtctatc 120
gcacttcggt gccgtcattg gcgcggaat tctgaatggt aatgaatttg tgaagtaatg 180
atgagtggaa gagctatcca ataacatgac atgaactgca aattcttgta tacttgaagg 240
ttaagacagc ttaaacaata caaggatggt ttcggttgctt tatggactat ggaagtactt 300
gttcagcaag atggagcttc atgtactcat tctggggatt gacaaggctg gcaaaacgac 360
tttgctggag aagatgaagt cgggtgtactc aaatatagaa ggcattcctc ctgatcgaat 420
tattccaaca gtgggattga atattggctg cattgaagtg gcaaatagnt aacttggtgt 480
ctgggaccta ggaggtcagc ctggtcttcg ctcaatatgg gagaaatatt atgagaggca 540
catgc 545

<210> 5018
<211> 379
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220069g07d1
<400> 5018

ggggtacaac ccaaggggcc ctttgcata ataccatata tgctccgaat accaagggca 60
agtacctgga acaatatggg agagcagtgc ttatacaatg gtacagatag gaaagtaa 120
taatacagtc aaatagaaac cggaccaatt acaatttagg gttgacaaaa gtatgcccgg 180

aggcagaagc aaaaaaccct tcgggacagg ccattatntt acagattggt tttaacaagg 240
atgttaaaag aaaaattggt ttaaaagata ctggagaggg gagactgggc cttttatgaa 300
acgggtgtgt taaaaattaa accatggcgt taaatttcaa gggtcagttt aatgcgacac 360
caagttatntt ttttacctt 379

<210> 5019
<211> 532
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220069g08a1

<400> 5019

gtgacgccac gtcaccgcaa gatccattcg ttggaatca tcgttccacc caccttggtt 60
ccatccatct tcaaaaagca aagaatttga gtaatgggtt ttgaaattca agtaatttga 120
gtcgtgggtt ttgaaattca cgcgatttgg gacgtgagtt ttgaaattc gaggccattt 180
ggttgatggg ttggggagga atctgaggaa aattttcaat gtcggagagc gatcagcgtc 240
gtcttctcgg ggcttccgag gatgacgtgg agtctggagg gtcggaattg gctttggcgg 300
tcgtcaatgg cagcagtggc aacaacaaca acaacaaca aggttttagg gatttgtaa 360
ggttgtcggg tcaccgacac agtttgaagc gcattgagaa agaagaagat agagatagag 420
acagggatag gggatatagat agagatagaa gagatcaaaa tcggcatctc cacgatgtgg 480
atcttgatct ttctgctgat gtgcttgggg acagtgcacc tnttgaatgg gc 532

<210> 5020
<211> 405
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069g08d1

<400> 5020

cccatcgat tccgtagttc ttgcttctc aagagttact ttacacgtg cagtgtccta 60
aattatgcaa aagaatctca agttatgatt tagacttgtg ggggttgga atactttctt 120
ccttatccaa taaccattat ttggcacta gaatatacat gaattatata gtctcacttt 180
tgaaggcaac caaggagct tcttgctaca acctcactat ttccttcata agagcaacaa 240

aaaagattga ctacagaatt agtgcccatt tgttggtttc acagccaaat tggtatctgt 300
cctattttga tgggctgtct gcctgtgatt aatatctttc ctgagacatt gccatagtgc 360
atcataatga agaagaccaa caattctcct cttaattttc ctact 405

<210> 5021
<211> 559
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069g09a1

<400> 5021

tattgatata tgtgtgtatt tcctttgggc ttgaaactca aaactataat aatgggttct 60
tcttctcctc cggacactag caagagcata aagctagagc gatacaacag ctacatcagg 120
agactcaaca gcaccaaact cctcaacgcc tcctccaaac tcctcttccg tgccactatc 180
ttagtcgcac tcattcctgt ctctctcttc accttcaact acctctccct cgccccagac 240
ttcacctccc accgccacct ccactccac tcccacttcc tctctctctc ctctctcttc 300
gcctctggg agaagcaggc cggccactcc tccaccctc gccgccccaa cggcctcacc 360
gtctctgtca ccggcgccgc tggcttcgtc ggcagccact gctcccttgc cctcaaaaaa 420
cgcggcgacg gcgttctcgg gctcgacaac tttaacagct actacgatcc ctccctgaaa 480
cgctcccgtc aggcaatgct ctggaaacac caggttttca tcgtggaagg tgacctaacg 540
acacccttg cttgagaag 559

<210> 5022
<211> 427
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069g09d1

<400> 5022

atatataccc cgatatttat attatgtata attgctacac caacatgcat ttggatccat 60
ggacacggac caccacaata attaaagaaa aataatagta ataattgaag aaaaaacaag 120
aaaaatgatc caaggtaggt atttgaatta tttgtttttc tttgtttctt gtaaaaaaca 180
aaacaagggc atgtggtgtg aggataatta aggcttgggt acgtacgtag gtgattattc 240

attgtcaagg tgatattcct tttttagcct ttgctggagg ccgtaataac cgaggtagca 300
 cttgacgaac ttcttgagac cgggtggcgag atcgggtggtg ggattgtaag agaaatccct 360
 gtaggccaag ctgacattgg cgtgtgtgaa gggaacgtcg ccgtttgatg gcatcttaat 420
 gacgtgc 427

<210> 5023
 <211> 514
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069g10a1

<400> 5023

cgactgaaac cctaaatctg aacaaagaaa gctttccgca tctctcggtg cgtttcgttt 60
 cgttgaagac cagcggcgct accgaccgga gcaacctcgc ctccctcaca gaacttaaaa 120
 aacccgactc ttcaaattta ctctacttca taccgaagct ccatagtga caggaactca 180
 gaaacaaatg ccattggata tcttaatctt gtgactgaaa aaatatataa tgtctgaaga 240
 ggctggatct atgttggttag tttatgatga tccctccgac caacgctcac tatctttgga 300
 tgatgcaagc agcacagagg agtcacctga tgaaaccagg ctctccttgg aaacaacaaa 360
 tgatgctatt ccatatattg gtcaaagggt tgccactcat gatgctgctt atgaattcta 420
 tagtgaattt gctaaaagga gtggcttctc aattagacgt caccgtacag aaggaaacga 480
 tggtgttggga aaaggactta ctagacgcta cttt 514

<210> 5024
 <211> 352
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069g10d1

<400> 5024

ataaaaatag cagatatatt gcaaatacaa aaatgcgtat gaacaaattt actatacatt 60
 tcttgtcatt cacttaacat ggcatatacc aatctacaga aatttcaactg ccgaagttga 120
 tgctaacaaa cagcttctat cacccttcaa attgtctcaa tctagcatga gaaatccaat 180
 aactaagctt tctcataaac agtttggtgt aactccatt cattcaacca gagactacca 240

actcaaccat ttcttgtatc ctggagtcaa agattcctat tgatggatga aatatctcgg 300
ccaacttgta acgaaattgg ttgtctctta tgcgagacag aaggaggggt ac 352

<210> 5025
<211> 593
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220069g11a1

<400> 5025

atgcccactt tttttcttcc aacgctcctc ctcttctca tagccttcgc cacctctgtc 60
tccggccgcc gtgacctcgt cggagacttt ctccggctgc cctccgaaac tgataacgac 120
gacaacttca agggcacccg gtgggccgctc ctctcgccg gttccaatgg ttactggaat 180
tacagacatc aggctgatgt ttgtcacgcc tatcaaatat tgaggaaagg tggctctgaaa 240
gaagaaaata ttattgtttt tatgtatgat gacattgcat tcaatgggga aaaccaagg 300
cctggagtca tcattaacaa accagatgga ggtgatgttt ataaaggagt tccaaaggat 360
tacaccggcg aagatgttac tgttgataac ttttttgctg ctttacttgg aaataagtca 420
gcactgactg gtggcagtgg gaaggttgtg gacagtggctc ctgatgatca tatatttgta 480
tactatactg accatggagg tcctgggggtg ctcgggatgc ctgctgggtcc ttacttatac 540
gcggatgatc tgattgaagt ctgaagaana gcatngctct ggacatataa aac 593

<210> 5026
<211> 420
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069g11d1

<400> 5026

aaacaataat tttggcatca taaattcttc cggaataatt atacaaaagt gaccagggaa 60
aaccgatct gccagttgcc cactgaataa aaacacacat catattacta tgtgttgta 120
tacatgcatt gtaatgagtg gatattccaa agcaattggc ccctttatcc ctcttaatc 180
cttatgccgt aaatggcacc atcccttgta aattgtaatt gcttcttcag aaatagaatt 240

atacaaaggt agttgcaata tctatattgcc aaactataaa tgtaaagacc cttcttccca 300
atcctagtag tgtcccaatt gtattttacaa aggtgggaca agatatgtat atacaagtac 360
aaccatgtaa cataatggaa caataatcat acttttgtct ttactagggc acattacagg 420

<210> 5027
<211> 586
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220069g12a1

<400> 5027

gtcttggttg taaagaaaga aagagaagag aagaatcgaa gacgaagatg gaggacgcat 60
cagcatcaaa gttcattcca caccaaactg gaggggtcca aaacgacgcg cttcgattcg 120
gtctccatgg gagtcaagag cgacatcggt ggttctcacc ctcttcaatc ttcactccaa 180
tctacaagga gaatggatga agcgatgaag aggcaatgca aagttaacct gtacggaact 240
gcttttccca tgaaggagga gcttgacagg caaatcctgt ccaggttcca ggggcctcct 300
ggaccaattc cttcttcaat gctgggtttg gagactgtta caggaagtgt tgatcacttt 360
ggttctgagg attgtctaaa tgacccccgt gagtcagaga ctttccggcc attagacatg 420
catcatggga tggaagtctg ccttggtcta tctaaggac cagtgtaccc aagtattata 480
taattaaatt tgactgttat tctagtacca gaaaacagta ttttgtgatc gaagcttctg 540
gtattcatta aaatggaagt gtncgaggga ttctcatatg tagtgc 586

<210> 5028
<211> 443
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069g12d1

<400> 5028

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttgaggggg agcgggggga 120
ccccaaaaa aaagaagggg tgtttaaaaa aaacccgggc cccctttcc gggggaagcc 180
ccccaaaacc ccgggatttt ccccccccc cccgggcaaa aaaaaaaaa cccccccaa 240

accatattta aaaaggggaa acggggggga aaaaaatttt accccaaggg ggggggggcc 300
caaaaaaaag gccccaggca aaaaattggg ttaaaaaaaa aaaaaacccc cttttttttg 360
ggccccaaaa ttttttcgcc cccaaggag gggaaaaccc cccccccac ccccagggg 420
gaaaaccccg cccccccct ttt 443

<210> 5029
<211> 509
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069h01d1

<400> 5029

aaatcagagg tttctaata aaacattgaa ctcaatagct acctctacaa aatacaggaa 60
taataagaat tgagaacaat atatacacia aaatatcaga atcaatttgt taaaaaattt 120
agcttctaca ggctgagttt agacgaaaaa agtaaataaa gaaagaaatg aaatcttggt 180
gggttatcga tgggcaatgg attattttct caaattcatt attgtagcta gatgtctagg 240
attgcttcaa ttccaacccc agctgatcat cttcttagt ctttttctct ctctatagcc 300
ctcctgtaga gttatcaatt tgagattgat cagtttcaca aacttgtcaa tcttcgtcat 360
cagagctggc atcatcacta ctataatcac tagtatcact ttctccaagg tccaattaac 420
tggtgcact tgaataactt ctggttgctt gggctgagga atgtgaggtt gtatttggtg 480
ctctgcaaat ctcggtattt tgagcgagt 509

<210> 5030
<211> 330
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069h02d1

<400> 5030

cattcactaa gactagtctc tgagagactt tattttgtca ttttggtgcc tactttcagt 60
ccttttagga actagtattg attaataaaa ataaataagg aatgaacaaa attcaattta 120
ctttttaaat acatgacttt tcccaccacc atttggggat actgtataaa tattatagcc 180
atacagctgc agctttcagg gaaagaaaaa ctgaaatttt gttggtataa aagcccggt 240

gtatggagtt gttagggctt tgaagcatgg ccagtgtggt gaccctgaa agcacaagaa 300
gagttttgca accaccattt tgtccaaaca 330

<210> 5031
<211> 239
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069h03d1

<400> 5031

agacaacttc aaacatagat agcacttaag gtagatttac acatagcaga tatatataac 60
cagctattat tgaagatttt taagcaacac tgaaagaact tgctgcactc tccacaaatc 120
ttcttgctcc cttgaaccac ctcttgcttc cagcttgagc cttgcaaagc aacagttttc 180
catcttttac agttgctcta attatgtggt gcttgccacc tttatctcca tcagcagtc 239

<210> 5032
<211> 483
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069h04d1

<400> 5032

gaactgggggt aaaataattht tttccatgaa ttctaaaagt tggtagggac ccatagcaat 60
ttttgtacgt gaaacctoga ttccgttgcc gcttgactgc atagacaaag agccaatttt 120
tataagcagc aactgaattc agcatggctt aaatgacgaa ttctttaaat gcatttgcatt 180
ttaatttaca atacattcat cagcaatcac aaacaactat ttaattggca tatatacatt 240
agatgcttgg gaaacctata ctactcataa actcaacaat tgtaatgcca aatcaattga 300
gaaagagaac tatcaagcca gaaccatcac aatattgcag gagaaaaaaa caatgttcgt 360
gaaggtcatt tttgtatat ttaagacaat gacgttacag ctagacggga ctagcacagc 420
atcagaaatg aacgtacatg acctgatgtt agatatattt ttaagccatg ctgtacttga 480
tcc 483

<210> 5033
<211> 587

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220069h05a1

 <400> 5033

 atcgagataa ctagaaacag tgtgatgaaa atgaaggacc ttgttttctt cgggtgctaca 60
 attttggttag catggcaatg ccatgcgtac gatatgttcc ctctacgaat gaacactggc 120
 tatggtgccc gtactccgga ggtgaaatgc gcaagttgga ggcttgctgt ggaagcacac 180
 aacatctttg gctttgagac cattcctgaa gagtgcgttg aagcaacaaa ggaatacatc 240
 catggcgaac aatatagatc agactccaaa acagttaacc aacaagctta cttttatgcc 300
 agagacctcg aagttcatcc caaggacaca tttgcgtca gtatagatgg caccgtactc 360
 tctaatatcc cactactaaa aaaacatgga tatgggggtg agaaattcaa ctgcaccttg 420
 catgatgaat gggccaacaa gggcaatgca ccggcactga ccgagactct taagaattac 480
 aacacgctgg tgtctgatgg cttcaagatt atattctcgt caagatgaac actgggtcaaa 540
 caggccgtag cagaagcaaa cttaacgaat gctgggtacc acacatg 587

<210> 5034
 <211> 393
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220069h05d1

 <400> 5034

 atgggtcaatg ggtccaaaat cttgggaaag aaggcaaaaa aaaaaaaaat actgaaaaca 60
 tttaataacc gtcctgtctt cccgagcaac cggaaaggaa gaaggggtgag ggacaagggg 120
 agccccgatc aatgataatt aaaaattgac ccaatagcaa gatttggggg agggggccgc 180
 ccccttcgga cacggcgagg ggtattataa aagcctacgg ctgaagatcc ccctgcgtgc 240
 cccaaccaa attggccaat atagttttcc cccacacag cagtgggggg cccccattc 300
 ccatttgag tgtggcacc cggacatgg aaaccgctt gggaatgaag aaaaaccag 360
 cccccaaaa cacattattt tggggggaga acc 393

<210> 5035
 <211> 468

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220069h06a1

 <400> 5035

 ggcaatcgca ttgaacaaga gaggatgata gatcatgata ttccttgctg ttgtgtcaact 60
 tgaagaaatt caagagcaga tcgagactaa ctcaccggtt tccgacgttt cagggtttca 120
 gcacttacat tgtttgattt tccagatttg agttggaaga agatcaacga ggctcctagt 180
 tgcttggtt gttcctctgg gtggtggaga ctttgctgat agttaagata ttgacaattc 240
 aaaatgcgca tggagagaag ggataggact ttgtcacatg aaagctgcag aggctcacct 300
 taccgtagca gctctagtcg cgtgggaaga tcttctctta ctgagtcaga ggagaatgtc 360
 taggaatggc tagaagctat gcgtccagtg tgcattggatc accctcacag tgcaggtgtt 420
 cttatatgtt catccgacga gatgggatgc cgtccttaca tgtgcaac 468

<210> 5036
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220069h06d1

 <400> 5036

 tttttttttt tttttttttt tttttttggg aagaattttt tttatgccca acaacaaatt 60
 ttatttacag ctcaatcggt caaaaacctt gggaaagagg gcaaaaatat taaatatact 120
 tataacattt aataaccgac atgtattcac gagcccctgg aaacgggttaa tgctgaggaa 180
 aaaggccaac catgatcaat gataactcaa atttgaccca tttgtatgta atgggggagg 240
 ggtccgcccc ctccggacac aggaaggttt attcccgagg cctcctgtcg aaaattcggg 300
 ggcttcaaaa aaaccaaattc gggaatcaaa attttcccc caaaaagttg tagggggccc 360
 cttatacga ctttgagggg aagtccccct ggcttgg 397

<210> 5037
 <211> 573
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220069h07a1

<400> 5037

gggaggagcg gcattaaaaa tgcagatctt cgtgaaaacc ctaacgggga agaccataac 60
cctcgaggtc gaaagcagcg acaccattga caatgtcaag gctaagattc aagacaagga 120
aggcaatccc tccggatcag cagcgtttga ttttcgccgg aaagcaactt gaagatggaa 180
ggaccttggc cgattacaac atccagaagg aatcaaccct tcaccttgte ctcaggcttc 240
gtgggtggcat catcgagcct tccctcatgg ctttggctcg caaatacaac caggacaaga 300
tgatttgccg caaatgctat gctcgtctgc accctacggc tgtgaactgc cgtaagaaga 360
agtgcgggtca tagtaaccag ctgaagccta agaagaagat caagtaaatt ctgggtggga 420
tattgttggc ctctactttc gttntgtttg tcttagaaca gtgacttggt tggcatttat 480
cgtatctggc tctgattaat ggtaacttgt ttgagacaat aggtttgaac tagtcattat 540
atcttgatga tgccatttag tcctagtcag aac 573

<210> 5038

<211> 421

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069h07d1

<400> 5038

gactaagacc aaaatggcat cataaaaata taattgacta gttcaaaact attgtctcaa 60
aacaattaac attaatacaa accagaaacg ataaatacca aacaagtcac tgttctaaga 120
caaacaaaac gaaagtagag accaacaata tcccaccag aatttacttg atcttcttct 180
taggcctcaa ctgggttacta tgaccgcact tcttcttacg gcagttcaca gccctagggt 240
gcagacgagc atagcatttg cggcaaatca tcttgtctcg gttgtatttg cgagccaaag 300
ccatgaggga aggctcgatg atgccaccac gaagcctgag gacaaggtga aggggtgatt 360
ccttctggat gttgtaatcg gccaaaggcc ttccattttc aagttgcttt ccggcgaaaa 420
t 421

<210> 5039

<211> 579

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069h08a1

<400> 5039

gatttttctg gaatgtacaa ggttgggttt ggactccaaa gtaacaatac aacaactaat 60
gctgtgcttt gttctgtgcc taatttcact aatcaatcag ttagcaatca catgaatcta 120
gaaggctctg gtcagaaaag tctttccatt gatttaaagc aagtgtggga tgcctttgcg 180
tcaactgac aaaggataga tgatgatttg cttcaggccg cccttaagat tccatctctt 240
catctggagg agcatgtgcc tatgggtgat cacatctctg gttttgttca agattgcctc 300
agtaaagatc ttactagtca acatatgatg aaaatgaatg ttaagcatgc agaagccgat 360
gctcaacttc catcaggtga tgacctcttc gatgttttgg gcgtggattt gaaaaggaga 420
ctactcaatg gaaaccggaa tgagttgctc gccactgatt cagatgccat cacagaacat 480
ctagataaaa aggcaacaca catgaatttg caaggtgtag gtcctaaata tagttattca 540
gttaatgaag ctatatcaga aagtggcatc ttctctgga 579

<210> 5040

<211> 504

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069h08d1

<400> 5040

gacacttatt ctaaaaggta gtattaatct agtacatcat tcagcataga ctaacacaaa 60
ccacgcaaag cttacattaa taaaattggt atattataac agccaatatc accactccaa 120
gaaacgtgga gaaaaaaggc cataaagctt gatgggtcaaa cacatgacct ccccccttag 180
caaacacctac aatatctata catctgaatc acaccatgaa caccaatggc attactcagc 240
aacatcaaca aaagccttat ccaacttggg gaccaatggc attactcagg gaaaaaaaaa 300
atggatgcaa gttatctaaa gaatgcctaa agcatcagca gacactgcca aatgggccaa 360
ccacaggata agtcaccttg gcaggaaacag gaagaaacat gcatatacat tatacaaaag 420
catattaatc ttgagaagtt cttactaact aaactcatcc ccctccaaac tgagatgaaa 480
cagtagttag acaaagtaaa ttca 504

<210> 5041
<211> 514
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069h09a1

<400> 5041

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aaaaacacca cgcaaacagc aagatggcca cttacgacag taacatgcta ctaaattatg 120
ttccagttta tgtgatgcta ccactcggag ttgtcaatgt tgacaatggt cttgaagacc 180
cagatggcct taaagaacag ctcttcgagc ttcaagctgc ggggtgttgac tgtgttatgg 240
ttgatgtgcg gtgggggatc atagaactga aggggcctaa gcagtatgat tggagagcct 300
acatgagttc tgttcagctg gttcaagagt gtggctcgac actgcaagct attctgccat 360
tgcattctat cggtgggaac gtcagagata tagctaacaat gccaatcca cagtgggcgc 420
ttgacattgg agaatcagat catgatattt tatacaccaa ccgctcaaga acccggaaca 480
tggaatatct aactgacggt gtagacaatg agcc 514

<210> 5042
<211> 450
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220069h09d1

<400> 5042

gataaaatag tttattaact tcgtgatcgg aatacacaca taacaagtac acgagagtac 60
tttgagatg tttaggcagt gctacttcat ggcattatta tcagcattgc acattacaga 120
ggctggatgc tttatttata ttggcagata ttatttccag cagattattt aattactcat 180
ggcaccaa at tgggaaatca accatcaact ttcatgtctg tctctggaag ccaggggaat 240
ggcagcggtg gtttagttgc ttccagaaga acctcaatgg gaatctttgg tgcagatggc 300
ttcaatggtg ctatggcgtg agtatacttt tgccgggtctg cacagggatc ctgagctgca 360
tgcattctata gcacagattt ttagaatata ttaaaattgg atttttgcag tagatcatct 420
gatagacgaa ggtatgttac tccgaacatg 450

<210> 5043
 <211> 483
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069h10a1

<400> 5043

cgactgtgcc cattgatctg gacagcgctt gctttccgga tatgtagaag aacgacgtgg 60
 cactcaacac caaccacatc cccgtcctga ccaacctgaa caacatcaca aggctgagtg 120
 gacccgactt ttcgctcgaa ccttacttca tcgcgaaact ccatagcgat ctggatctcc 180
 cagacatcag ccattcgcta ctttatcttt gtgactgtta gactatctac tgcttaccga 240
 tgctgtgatc accgtttgat cggttatgag cgaaaccttg gacaaggctc acaaactgtg 300
 aatgatgcag gcgcacacaga ggatgcatcg gaccatacca tactcttgct gaatacgaca 360
 gatgatgcta aaactgtcta cgtctgaagg ctagccgcat atgatgctgc gcatgcatga 420
 tatggggaac tgacgattaa gagtgactag tcaatcagac gtcctcgcac atattgtact 480
 gat 483

<210> 5044
 <211> 296
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220069h10d1

<400> 5044

ataaaaagctg cttatttgtc gcctattcca aactgcgggc gaacaaattc actatacatc 60
 tcttgctatt gacctagcac ggtacaaacc aatttacata aattttactg ccctgagcca 120
 aggtggcaac catctgctgt caccctgat ataccaacaa tctaacctga taaacacaat 180
 taccaatctt attgaacaac cgttgggtgt ctgtccctt ggttccacca cccactacaa 240
 gtgcgccatg gtatgtgatc ctggaactta aattccaatt ggtggcaccc acattc 296

<210> 5045
 <211> 411
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220069h11d1

<400> 5045

aaaagttaaa actacttttag accgcaaaat tcaaaatcca gaagtggcta gtttttttgggt 60
tcaccaaaaag cctcgtacaa aatcttaaca aatgaaaaca agtgggtact cgccacaatg 120
ataaggcaaa tgtaacaaaa aaaaaaaaaa ccagtaatat atgatatgtg aaaaacaggt 180
aaccgatcct aataaatgct ttttaattgaa gtttgcattcc aatgtagata tgaagaggta 240
tatcgagacc tcttttgcac catccaaaaa attttgccat aaacagcaga agaattcctt 300
gtaatggggg tgatcatttc acagtcaaga tcttgatgat agatgcagtg cccacacgat 360
gcagtgccac cactgaatcc ccgttgtggc agagaccctt ggacttggca t 411

<210> 5046

<211> 541

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220069h12a1

<400> 5046

gagcacactc gtgaatcgtg atttagcatt taccacacca aatcaatct gcggagtcag 60
aaagccatgg atccctacaa gaatcggcca tcaagcgctt tcaattctcc cttctggact 120
acaaattccg gtgcctccca tctggaacaa taactcatcg ctgactgttg gatctagagg 180
tccaattctg ctggaggatt accatctggt ggagaagctt gcaaactttg acaggggaacg 240
gatccccgaa cgtgttggtc acgctcgtgg agctagcgca aagggtttct ttgaagtcac 300
gcatgacatt tctcacctca catgtgccga tttccttcga gcccctggag ttcagacccc 360
cctcatcgtc cgttttctcca ctgttatcca cgagcgtggc agccccgaaa ccctcagggga 420
tcccagagggt tttgctgtca aattctacac cagagagggt aacttcgacc ttgtgggaaa 480
caacttccct gtctttcttcg tccgcgatgg cctcaagtnl cctgacatgg gtcatgccct 540
c 541

<210> 5047

<211> 523

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220069h12d1

<400> 5047

aagcccaagt aaacagagaa tcatggaact gtccagatcc tcataccttat cacaatggac 60
atatagtatt aagtggacaa gtcaagaagt tgagttcatg aaataagcaa tataacaatat 120
agcaatactg taataaaagg accagtcctt tcaaattaat actgtgccac aaactttctca 180
cttgttccta catctgcatc tcttaaaagc tagggtttcc accaccaatc ttagatactt 240
ggcttcaagt tcaggtgaga tgctatcttt tgtccaagag aacgatcagc ctgagaccag 300
tatgatatcc agatgctacg gatttcatgg gtgacacgtg ggtcagacaa agcatcaacc 360
catcggcgga caaacctttc ttgcctgtca gaaggccaag atcgggtatct ctccccaggt 420
tgcttgaagt tgttctcctt ctcaatcatg cacttttcac gcttcccacc taggatacga 480
ggaggaacgg ggaccttttc cgcatgacgg acaggatcat acc 523

<210> 5048

<211> 533

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070a01a1

<400> 5048

gtggattgtg ctctacactc cccccagtg atccatttcc caaaccagcc ctacaacaaa 60
cctgaaatta ccaaagaacc caccacctcc accgcggaaa ggcttcagtg gaaccattc 120
caaaaagccg cagcaaaggc cctcgacatg ttcgagagcg cgttgctctc acgcgagctc 180
aaccaaccct ttcccaaaac cactgacca cgcggtccaaa ttgccggtaa cttcgcccc 240
gttccggaac acccgtcgga acattctctc cccgttattg gcacaatccc cgacgccatt 300
aacggcgtct acctccgtaa cggcgccaac ccattgttca agccaaaagc gggccaccac 360
ctcttcgacg gcgacggaat ggtccacgcc gttaaattca atgacggcac cgtcagctac 420
gcgtgccgct tcaccgaaac gcagcgtctc atgcaggagc gcaaattggg aaaacctgtg 480
tttccaagg caatcggcga actccacggg cattccgcat cgcgagggtg atg 533

<210> 5049

<211> 484

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220070a01d1

 <400> 5049

 agccaaacag aaagcgaatt cttttttaaa acaaaagaaa ggaagcaaga aacagaaagc 60
 agctgagctt catccacaaa ctacaagctg attcgcgaaa gcatagataa atatttatta 120
 ttgagaaggg tagaaaaggc aacaaaatgt ttgttgctctg aaatgtgttt taccgtttta 180
 gcgaccaa ataaaatagtc aggtggactt caatgagcct ccacaaacgt gccatggaag 240
 ccatagggca ctcttgaagg cagcatgaca gtggcctcca acttcaaadc aagtgcattc 300
 agaattctgca actcggactg ccacgtcadc tcgtcatgca caaaagccat cacgtaccct 360
 tcactctcat tcccattccc tccacgtgtt ggcaagaaga atggctctcc accgaacctt 420
 ctctctccgt actcgtgcct cttcacttcc cactctcca ggtccacctt cgccaccccc 480
 gaca 484

<210> 5050
 <211> 136
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220070a02a1

 <400> 5050

 gaacgacgag cgacttatac agatctttga cgagattggg agcgcattca taggacaaat 60
 tgatctgttt cttcaccctt atctccaatt cccaaaccct aaaccctctg tactctaacc 120
 ctaaccatct ctccta 136

<210> 5051
 <211> 243
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220070a02d1

 <400> 5051

 cctatatatt ttcatatata taggagaacg tggtaaaatt ttataacctt catgccctaa 60
 atcccgaac acaacaacc cccacattt tttcattaaa aaaaccact tacattttta 120

aaaaaaacaa caaattaggg gtcccaaaca aaaatacccc ccggttaaata aaacccattt 180
aataccccaa atttacttga gcaccaaacc acaagggttc ccccatgtt aatcgtcctt 240
agg 243

<210> 5052
<211> 491
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070a03a1

<400> 5052

gtggctttct actttctctt tctagagtag gactaaactc atacactgat catgggagtg 60
gatttaagac aagtgggtggc ggggtgtctc accctcaciaa tggtcgatcat gcttatacac 120
atgatcaaaa gagaccattt tgatgctgtt gatgataaac ttcttggaac ggaggatgtc 180
agctttgaaa gtacaaactt tgatactact catgttagaa agaacatcgg gatttggaag 240
ggagatgggtg atgagttaaa accatgttgg cttaagccat ctgaagataa cgtggatcag 300
actgaggggt ttgttacctt ttctttaacc aatggcccg agtaccatat atctcagata 360
gcagatgcag tgcttggtgc tcgtagtctt ggggcgacac ttgtcatccc tgacattaga 420
ggaagccaac ctggtgacaa gaggaacttt gaggacattt acgatgtcga tgtgttcatt 480
aaaagcatgg a 491

<210> 5053
<211> 297
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070a03d1

<400> 5053

aaaccgggaa aaggaaaaaa aaacccttg gttctctttt tttttttggg gccccgggc 60
ctgttttttt gctttttgaa accaaaaaaa aaacgtcccc cgaaacaatg aaggggctat 120
caattgtttc ccccgctttg aaaaataaat ttggggggccc ccttttttta acaaactaaa 180
tttccgttca aaaagccctg ggtccctgtc aaatcacagg aacttgaatt ttttggggaa 240
cccccaaaca agaggccttt ggcctaaca ctgaaattcc cgaagggggc cttttt 297

<210> 5054
<211> 523
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070a04d1

<400> 5054

aaactaacta atcttatatt atgtagaagg ttttagtatt acacttgat acatgaccaa 60
tgcacataac acgtatgcta ttgggctact ctagtttaga gaaaatttga cacaagcagc 120
agaaaccagt aggcagaatg caatagagaa atattacatc atcaaccggg ctttaaagct 180
tttgtgtaca aaacccaaaa tcaagcactg tagcctctgt ttgatggatg caatagccca 240
gcattgtagc cttcacaggc tgccaaacaa gcctcttcca tggaggcctc agaaacgccà 300
ctgttgcaaa tgttggcgaa tgctcgcatg tgtttcatgc catactgagt cagtgtccca 360
cagtgagttt caaacacccg aaccattgat tttaggcatg tccagtcatc aacaagggac 420
gaaccaggag ccctcacgga ttgtagaaca gaagaacctt ttcttggtcc atacagtaaa 480
actccaatca attccacgct accatctatg tgttttctat gct 523

<210> 5055
<211> 569
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070a05a1

<400> 5055

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aacttgatt cactgagtcac cgagagagat ctggaagacg aattccgtgt tttcggagtt 120
attcggagtg tttgggttgc acgtagacca cctggttatg cttttattga ctttgatgac 180
cgcagagatg cacaggatgc tatccgtgaa ttggatggta tgtttagaag aattatgttg 240
ttggaatgta atagaattaa aatcaaaatt aaaatgtgca tatatatgta tatttgctac 300
attcttctta tctgctaatt tgttattgtt tttcccccatt gttttttccg gttgatatgt 360
tgaagggttt tctcaacta gctagttaag tcttcttttt ggcctatggg gcaagcagat 420
gctgctctct ctttcttcta cttctgcctt gggctgcagt aatggttttt tcttcggttg 480

gtcttcgtca aagtctgctg cttgtacagt ttgactactt ctactactac tgcattgttaa 540
gaggattaag aatgggacac cggggattt 569

<210> 5056
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070a05d1

<400> 5056

attctgcaaa gatctggaac tctatttaac atactagtag caacaacctt aacaagatca 60
ttacctgcaa tgaaactaca agtattctgc aaataaatta aacacaagct tggacataga 120
gaaactaacg aatacaatcc aagagtagaa actcagggcc ttgcccaca aaatagactc 180
atacttcagt ctaagcacca ctatagatta acaaaatctc actattctct taacaatcac 240
agataccaag tgtcaaaatc aacttctgct tctgcgtcgt tccctaaggc catttccatt 300
agcatatggg acctcctcac gccacgata aggaggtgac ctgctgtagc tacgtccacg 360
aggtgacaaa ctacggcgcc taggggaccg cccacgagga ctgtaactcc ttcgcccata 420
acttgggctc ctacggaatc tgggtggact acggctacgg cgtctttctg aaccaccacg 480
catgcgacat ttacgagcaa aatgac 506

<210> 5057
<211> 475
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070a06a1

<400> 5057

gttttgctat ggagattcta gaagcagaga acgttctggt ccttccctct gagcaaccca 60
acaacaatag gccaaagcca aaaccaaagc gtttcgtgaa aaaccaaatt ccagactcaa 120
tccttaacaa ccctcttctg agcgccgcaa tctctgtgct cccttccaac tacaacttcg 180
aggccacaaa gtgcgtctgg cgcgtgctct ccacgggagc aaaacgcgtg gctctccagt 240
tcccggaggg tctcctcatg tactctctcc cactctccga catcttcacc accttcgccg 300
gcgtcaccca ctgcttcgtc ctgcccagc tcacctacgg cgcttgctgc gtcgacgacc 360

ttgctgcctc cgccctcggc gccgacctcc tcatccacta cggccacagc tgcctcgttc 420
ccatcgacgc caccacaatg cctgcctct acgtcttcgt cgacataaaa tcgac 475

<210> 5058
<211> 466
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070a06d1

<400> 5058

ctttcgccct tttttttttt ttttttttgt tttttggcta tctcaaacia ttatttttat 60
ttatggggaa ccaatctaaa ggccaaatta gcggggggga cacaagcta tgagaaggct 120
taggggtttt aaacaattga tagagggttt aaggacaact gggaatgtta actcaaaaaa 180
tcatttttcc tttatgtcca ttaccagaac aattgtaa at gccatgttat ataactgcc 240
tcattgttcc tttcccatcc tcacgcttta aaactgcaac cttgccactg ccaccgaagt 300
acatatatac tttctggata acccatatgc tcatcactga ctttaaacia aaaaggccta 360
atccaatgaa gtataatatc ccaaccaatg cattgttttc caacacatta atcgcatcca 420
aaatgcctgt gagagatttt ccttttaaga taattggtgg aacaac 466

<210> 5059
<211> 418
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070a07a1

<400> 5059

cgaaacccta atttccttaa tcctgttttt tggaattcga caatggagca gaagaggagc 60
aggaggatgt acaacctgtt cgtgaagcac ttggacggga aaacctaac ctcctattc 120
ccctctccga tcctctacgc gagtttcatc aaggatcgcc tctttcaact cactggaatc 180
ccgcccacc accagcgctt cgtcaccggc tgctgccacc tcaacgatga caaatcgct 240
atccagtgt ccccggggga cggcaacatg tttccctccg tgcgctcct cctgcgcctc 300
aagggcggca agggaggctt tggctcgctt ctccgtggcg ccgccaccaa ggccggcctg 360
aagaagacca acaatttcga cgcgtgccgc gacatgagt gccggaggct gaggcacg 418

<210> 5060
 <211> 385
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220070a07d1

 <400> 5060

 aaaaaaaccc cccccctttt tccggggtgg gggaaaaaaa ttttggccaa aaaccccccc 60
 tttttgtccc aggggggggg ggattttttt tttaggaggg gggggtttgg gcgggggggg 120
 gttttaaagg gggggccccc ccattccca aaaaaaaag ggaaaaatcc cggggggggg 180
 gggcccgggg gggggccccc gggaccccc cccgaaaaac cccgggggga aaaaaagggg 240
 gggggccaat ttggggccaa agggaaaacg ggcccgtta aaaaatcccc ccacattttt 300
 ggggggcccc aaagggggcc ccccccttcc cgcagggggg cccccaaaac tccgaacctt 360
 tggggggggc ctaaaacccc ccccc 385

<210> 5061
 <211> 212
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220070a08a1

 <400> 5061

 cagaagacta gattcatata gatcacttga tcatcgttca tctgcttcaa gaagaaacag 60
 aagtaggagt gtaagtcctt atacaaggaa atcacctgtt tctccaaat gtcatagaga 120
 aacttcacct catagaggaa ggaaacagtc acgtgttgat tctggctctc caagtcacg 180
 cagaggaagt aggccttctc caaagattga tg 212

<210> 5062
 <211> 549
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220070a08d1

 <400> 5062

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tcttaatgtc aagttcagcc aaatccaagt tagtcaactg catatgtgct tgggcccttc 120
tatagagggc tttcacatth gtactctcaa ggtccaacac cttagtacac aattttctctg 180
cttcttttga gtcttttaac ttcaacttgc aagcagcatt gttcagattg caggcaacct 240
tcaaggtctt ggcctgcttt ttctctctct caccaaagga ggaatcatat tctatgtact 300
tcacggcctt ttcatatctt ttggaagctc ttgcatatth actagcttta aacaagacat 360
ttccctcttc tttcttctta ccagcagctt caagtttctc ttcagtgttc agatcccagg 420
actccttctc tttctcaaat gacactagct caacttcaaa atacacggct gagttaggag 480
gaactacagc caactcctgt tgggactctg atgtaccgaa agcataatca ggtgcaatgg 540
taacaacgc 549

<210> 5063
<211> 533
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220070a10a1
<400> 5063

gagtttcata gaccacagaat ggctttatgg ctgctacca ggtgactatg gttttgaccc 60
actaggacta ggaaaggacc cggcattcct gaaatggtat agagaagctg aactcattca 120
tgaggagtgg gcaatggctg cagttgtagg catcttcatt gggcaggcat ggagtggagt 180
tccatggtht gaggtggag cagatcctaa tgcaattgct cttttctcat ttggctctct 240
cttaggtacc cagttgctcc taatgggggtg ggttgagagc aagagatggg tggacttctt 300
caaccagat tctcagtcag tggagtgggc cactccatgg tcaaaaactg ctgagaactt 360
tggcaactct actggtgaac aaggctaccc tggaggaaaa ttctttgacc ctttgggatt 420
tgctggagct atcaaggatg gccgttacat tccggatgcc gacaagctag agagactgaa 480
aatggctgag attaagcatg ctaggattgc tattgtggct atgctgattt tct 533

<210> 5064
<211> 545
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220070a12a1

<400> 5064

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ttcccagaaa gtttgaacca acacaaaacg aggttgctca ggagaggctt tggctcatgc 120
ccttcacctg ggggtgcttg ttttggccat aaaaattatg atcagttctc tgtgaaagtg 180
tgcagggtt ttaggactga ggatgggtgg gatgtgaagg agaaaaagt tcgaaatttg 240
aagaaaaatg aagagaaaac caaaaggga agtgggtttt ggagttccct caagtctatc 300
ttgctgagga atttcatggt gggttcaaaa tcagatgatg agtatcgcca agctgtggtc 360
aaggtggagg gtctcctatc ctcgattgcc attcaaattg gaaggtatat tgtgactatg 420
atgagcactg gggtcactct ttcaattgga tttcagatgt cagggtggaga cagtcagatg 480
gatgcattaa tatggtatag ttggctagga ggagtaatca ttgggacaat gataggtgct 540
aacat 545

<210> 5065

<211> 476

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070b01a1

<400> 5065

caggctgcgc agtgtttgaa cggtgaagga gagcgtagag gcagtggttt tctttttttg 60
atttctcttt gtagaatcga atcgagttaa tttttgatcg tgtgagtgtc cgatcttgaa 120
atccacaaca acaatggtga gaggattgct caacaagctc gtctctcgct ccctctcggt 180
cgccggaaaa tggcagcaca atcaactccg ccgcctcaac atccacgagt accagggtgc 240
tgaattgatg agcaaacacg gagtcaacgt tccgagaggc gtggctgttt cctctgttga 300
agaggccaga aaggtcatca aggacctttt ccctaataa aatgagttgg tggttaagag 360
tcaaatttta gccggcggac gaggtttggg aactttcaaa agcggcctta agggatgagt 420
gcacattggt aagactgacc aggttgaaga catagctggg aagatgcttg gacaga 476

<210> 5066

<211> 480

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070b01d1

<400> 5066

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tttttgtgct tattcccaaa ctataatgct gtttctgaaa gcattgataa atattttatt 120
attgagaagg gaaaaaaaga aacaaaatgt ttggtgtctg aaaagagaaa aaccggggaa 180
acaaccaagg gggggggggc cgcggaactg aaggggggaa aaaaaaccaa ccccgcccg 240
catagggcac ccctgaaggc ccccgacgg gggcctccaa cttcaaaaca agcgcccca 300
gaaacagaaa aaaggactgc caccgacaacc cccctgcgg ggaggggggg gcgccccca 360
aaaactgatt ccccccccc tctgtagaag gggggagaaa ggccctccc cgaagcggcg 420
ctttcgggcg gggggcgggg gaaaaaaaa aatacagggg caataaggcc ccccccccc 480

<210> 5067

<211> 434

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070b02a1

<400> 5067

attaaccaat aatatttttag ttaaaacatg tccatggcca tcattaacac ttttggaaac 60
gttgatgtct atattctatt attatcatca tggtttctcg tatctgctgt gtgtgtttgg 120
ggacgaccgg ccacttttct gcaagacttt gaaatcacgt ggtcaaagac tcatatcagg 180
caaattgatc aaggcagatc catccaactc attctagatc aaaactctgg ttgtggcttt 240
gcttccaaga gtaagtacat gtttggccgt gttagcatga agatcaagct cataccgga 300
gactctgctg gcactgtcac tgcattttat atgaactctg acaccgacac tgtacgtgat 360
gagctggatt ctgagttctt ggggaaccgt aatggtcagc cttacacagt tcagacaaac 420
atttatgctc acgg 434

<210> 5068

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070b02d1

<400> 5068

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acaaacaatg agatttgcta catcacaagc ccaaaaatat ccttcatgaa tcatcacaaa 120
ttcacataa tgcgcaagct ttattgcacc acaacaatg cgcactttaa tacaaaggca 180
tagtagaccc agaaatagct tttgacttat cctcttctgg tcgaacatag cccacgcctt 240
acatacacta taatcatttg ccctcttccc caaaaccaa caaaaaaaat gttaatttca 300
attgatccat gtggtatggt atggggacac aataatttac ccctagtctt aagttattga 360
tgtgcatttt atttcacgtg tttatatgaa agacatgaaa taattgaaga ggcgtacccc 420
atgggataaa ctgaaataac tcagttgtag tatatatagt atgatgtatt tgaacagtgg 480
agaatgtaaa ttatatatag ggggtatgata tgcctg 516

<210> 5069

<211> 435

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070b03a1

<400> 5069

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cacttggttc acaaatatgg tgggggtgat ggtgctatth tgtttcacct ggtacttccc 180
tgaatctggt gcataaggga tttcaaccag ctgaggtttt acgaacgggt ctattccacc 240
attggcagtg ttaatttgaa aatcataggt tgaattgtat gaggcacaa gtaatatatg 300
tgatctcgga cccaagtaat ccatttccaa aagatgagta agggaactag tccttgga 360
tttcaccaat tcttggtcac tgggtattgt tgcgtggtga aggttgtatt gggctattgg 420
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<210> 5070

<211> 366

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070b03d1

<400> 5070

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tcctaaaaaa gggggggggg gggcattaca taaacaatta tttaaactgg attcactcgt 180
acatacatgc tcacaaaaca aataggggga gatttttttt caaatggaaa atggcatggg 240
aaaaataata tcttgggggg catgaggggc tcatgagaga ggggaacca tttttttgca 300
gccaaccttg ggaggggtcta atttgctggg ggaatcctga tgatgctgca acagttgcta 360
acaaat 366

<210> 5071

<211> 368

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070b04a1

<400> 5071

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gggtggttct ttcttcttct ctttcgcttc ttcgatcttc gatcttcgtc gctgaaaatg 120
agagagcgca tttcaatcca catcgccag gccgggattc aggttggaag cgctgctgg 180
gagctttact gcctcgaaca cggcattcag cctgatgggc agatgccaaag tgacatgacc 240
gccggtggag gtgatgatgc tctcaacacc ttcttcagt aaactggggc aggaaagcac 300
gtgccccgcg cgatttggtg tgatctctga gccactgcg attgatgagg tttggactgg 360
gacatacc 368

<210> 5072

<211> 345

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070b04d1

<400> 5072

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gtacaacgat ccacagagca cgagaagaaa aacaacacag aaagttacat aatagtgcaa 180
 acttctaatac ataatccttt ccttaatacac catcttcagt tgcctttgca ccaacttcct 240
 tataatcctt ctccagggca gcaagatctt cacgggcctc atagaactcc ctctctttca 300
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<210> 5073
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220070b05a1

<400> 5073

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 gttcaagctt agaggattct tgcgtgtaag cccggtaagt ataaaggcat tcatatgctt 180
 tcaccctaca acataatgcyg tttcgaagat agtttcttgg ttcaatgaca aatggcatac 240
 taataatctt aaacagcgat caaagactcc ttcattaatg aattatggac tttctcccct 300
 caacaaatac acgtaatat aatctgggtcc tatgcttatt cttttttatga gagcttgggt 360
 gagcggtgac ttatttttatt ttggatgaaa ttcatttgggt ttacttaaata agatttacct 420
 taggatgttt t 431

<210> 5074
 <211> 246
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220070b05d1

<400> 5074

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 cgtegtccgg cctttctttt tottcatattt acatctattt ccaagtataa caattatgaa 120
 acgggatggg tcagggtttaa caatattaca aaaagttacc atctatgggtt acatataaaa 180
 tcaaatcata cccaaatggg agggggaggga ggtagattga tcatgctaca taaaagggtt 240

acatat

246

<210> 5075
<211> 546
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070b06a1

<400> 5075

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atatgtccgg cgccaaaaag ggtggattca ttgtctccag ccatctccaa ggggaatcgg 180
tgcaggactg gagagaaata gtgacatact tttcgtaacc aaaaagagag agggactatt 240
caaggtggcc agacacgcca gaagggtgga gatcggtgac tgaggaatac agcgacaaag 300
taatgggtct agcttgcaag ctcattggagg tgttgctcga agcaatgggg ttagagaaaag 360
agggtttaag caaagcatgt gttgacatgg accagaaggt ggtggttaat tactacccca 420
aatgcctca acctgacctc actcttgccc tgaagcgcca cacggatccg ggcactatca 480
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ggatca 546

<210> 5076
<211> 549
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220070b06d1

<400> 5076

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taaactctca tataaggaca aaaactgcat ttaaaactaa atgcaacata taacattatg 180
gaggaggggg cataaagaga acataaatga attacatatt atgcacgacg ttactcaaa 240
cgccatgaat ttggctcatg gtatctgtca taaagtgggt caattcgctc ttgacgcttt 300

cgcttgctca tctttgtagg atctgccact ttgaagtatc ttggagccaa ttcaacaagc 360
catttgggggt ctatgacagt gacctcacgc atatattcct tagttgtcat cacaagctca 420
tggtagatga cccagtctgg ttgtctctgg aacaaagctg aacttggatg gatatacaca 480
ggctggttct caacaagggg tctgtaacct tcttgggggt cttttctgaa acatggaaaa 540
aaaccctgc 549

<210> 5077
<211> 582
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220070b07a1

<400> 5077

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gggctcattc accttctttt ttctccgtta ttccctctct ttcttaatac accgggggtcc 120
catgggggatt gcattctcct tcttcaactc caaccctgc ttcccttttt tcattgactc 180
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accgccatca tcatcaccag cttcttccgc cacatgcctt agaattatac tattcccacc 300
ctccctcttt cttcaacaac aaccgttgac ttactacag tcacgtggtc tttctctgag 360
gatccaacca tggcggctgg aactgtcttc tgcgctgctg ctactgctgc ttttaaattg 420
acaacaacca cttttgttta caaccaaaca cctgcttac accttctctc aacctccttt 480
gattttcttt ttctctctgg cctttacctt ttactcgggt taagatccta tagtgagggt 540
tgagatggt caaggaggga aggggtgcaa tgattctttt tt 582

<210> 5078
<211> 457
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070b07d1

<400> 5078

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aatgagctac atgctaaaca tacttcttcc ccatctacat tcctaattctc attgttctctg 120

ctatcattga taggactttt tttcaagtgg actgaggagt tttccaatcc tttggcacag 180
gtccaaaatc atatataact tctctggggc aagaccatac aagttttata gcctccggtg 240
ttccaattcc tgcacctctt gcgtcgccag cgggaccaa ccaatgattc tgaggagctc 300
cggttgtcct tgctcttaga ccagcataag tagtaccatt tactgaattg ccaacaactt 360
cctgtaaaaa caaaggatca tttgaaacta cagcagccgt taaatggtta tgcattcttt 420
ccacagcatc caatacaact gatagttgac tgttttt 457

<210> 5079
<211> 520
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070b08d1

<400> 5079

aaatgtaaga atggaaatat atattttcac aactatactg acatgttggt acattattta 60
caaactcatt atcaaaatag tgctactaag aatccaaaaa atgcgtagta ataacgcttc 120
tctggtgtgt gctaaagaaa atactaatat tagtaatata aactgaata gcctataaga 180
tatgctcaaa atatggccaa aagcacaaaa agggccatca taaacgcaga agtaggtttt 240
atcttaaatg agagattagg tgacagcaca ggattattag actggcttga tcttgcttca 300
ggattcacag ctatggcagg agaaatagca ggtgtatttg atcggttaat aggtaaagta 360
gagagttcat catcataaca gttagattcc ctccaaccaa gattcatgtt ctcacgggtca 420
aagactatac ggtaaccagt catgaaattt tgtgctatga tattcacgtt gttgcttttc 480
aggactccca aacaaagtat gttaataccc tcaccactga 520

<210> 5080
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220070b09a1

<400> 5080

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tcccatctct cactttttcac tctttttctcg aaacaatgaa ctccatagtc ggtaaatacgg 120
 gggtcgggct cgcgcagtc tcaccggagg cccacattt cgctgcccag ttccgccccg 180
 gcatttccca ccgtaaattc cgcgttggtt cgggcaaatag cagccgctgg ctgaacggtc 240
 ggaacctccg cgtggcgggc gtggggcggag gctcgggtctg aagagcccc acggtctctc 300
 tggacatggg taaga 315

<210> 5081
 <211> 535
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220070b10a1

<400> 5081

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 ccacactctc cgtggcattc cccggttccg tacttggttc gaggggttagc ggcgatgttg 180
 ggtctcatag ccttcgctct attgatactt gcatgttcct actggaagct ctcagggtac 240
 ctgaaggga acggggaaac agaacgggac ctagaagctg gcgaaacgga gcaggaccag 300
 aaacctgcga aaccatacga ggagaagatc ttggtgatca tggccgggca agagaagcca 360
 acattcttag caactccgag tgtttcgagt tgcagcacta gcaggtcctc tttcttcggc 420
 gacaacacca gcacgtgcac ctgcgaggag aaccgaaaat cgcttgaaat ggcacaggct 480
 gggactggng accaccgaac cgcacactcc tcgtcggatt agaacccttg atcgg 535

<210> 5082
 <211> 511
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220070b11a1

<400> 5082

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 aaagctggcc acccaacttt ccttttgggt gagggagtcc actctctcca accccgcaaa 180

atcacccctc atcgacaatt tcaaaggcct cggtgtcaat cttgttttag gagatctata 240
 cgatcaccaa agtttgggtga gtgctataaa gcaggtcgat gtggttaattt ctactgtagg 300
 acacctgcag ctagctgatc aagataagat catttctgca attaaagaag caggaaatgt 360
 taagaagttc tatccatctg agtttggaaa tgatgtggac cggactcatg cagttgaacc 420
 agccaagtct gcatttgcaa caaaggccaa agttcgccga gctattgagg cttgaggaat 480
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<210> 5083
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070b12a1
 <400> 5083

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 gctttgtact atattaaatc tcagtattgt aaaggtaaac gtttgaattc taggagatta 120
 agctcctcta tgcctctgtg tgtatcactc aatcagactt tatcatcatc tccaaataaa 180
 atacagttga attcaaaagg ctcatccatc aatgggtactg ctcttgaatc tgtggagcat 240
 ttggtcgcac aggggcaaca aattggcagt aaaatggaat tggagaatct tcaatccaag 300
 gatacagtta ttgctgtaaa tggaaaagct gcagtgtata ccacagtggg ggatgatgtg 360
 gaaaagggcc catttgtaca ggaggacaat catgaaaatc attttttctt aaaatcatct 420
 ggcagagtaa cagatttaaa tgaaccactt gttgggaatt tatctccacc aatagaaaaa 480
 gagacaaagg gtctcgagca ttctgggagc atgat 515

<210> 5084
 <211> 363
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070c01a1
 <400> 5084

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ttgacgccgg aggcgattcc cccgccgacg aaccttctct caagcggacc aacttctccg 180
 gcgagaaaac tacggccgaa gctgatgagg agcaagcctt cgatcccgag cctcacggcg 240
 gcgattccac cggctctcaa ctactcggtc tgctccttca atgcgcggag tgcgtcgcca 300
 tggacaacct cgacttctcc aacgatctac tgccggtgat cgcggaactc tctttgccga 360
 acg 363

<210> 5085
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070c01d1
 <400> 5085

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 agacaaattc ttccaaccaa gcttggggga accatttttt ttgaccaggg tttccccttt 180
 ccaagggaac attcccagaa acaagttcgt ttgtgcagcc gggttgcctt tgagcgaaac 240
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 ccccggtgct cttttcaggt tg 382

<210> 5086
 <211> 335
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070c02a1
 <400> 5086

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 ctgccaaactg ctgctgtggt gcaacacttt tctttaagct tttgtggttt taaaatagtc 120
 tcaataattt gattatatag gtgtatgata gatagaagtt gttgaagggg aaaaatgtag 180
 aaatagtatc tgtatttttag gttatagctg ttcattgtat ttcagaaatc agcttttatt 240
 tgtggttggt tgcatatatg gctccatggt gtatttatgt atggatgtat atatacgttc 300

tctcttggtta tattagaaag acattaccaa ctagt

335

<210> 5087
<211> 514
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070c02d1

<400> 5087

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cgaatgtact attggacaga ttcgaggcaa aagtgactcg atcagtaaaa aatcaaatta 180
ctaaaaaaaa tccatcagaa aatctcgcta cttaaggtaa gcgtctcaaa atgatgtcaa 240
tttaattcaa cttggctaata cactcttag caaaggctct cactttacat ggacattggc 300
ccagcgacaa aacttccatg ataacggctc caatatatgt cagtacatgc atgtctgaat 360
gtcgtctgtg ctgcttgccc cccatccaaa acgcattcca tatctaagct tggaatttcc 420
ccctttatgg ggcaaagttg gcgttccaag ctgaacctga gtcattgtgc tctgaacaat 480
ggccagtcca tccgatctgg ggcgttatat cttt 514

<210> 5088
<211> 518
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220070c03a1

<400> 5088

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aacaggatat tggaacttt taccaaakat gcacgcaccg cgtagattgt gttctggttt 180
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atatgttaac gtgggtgttc aggcacctcc acttgtggct gttgtggata atcagctata 360

tgcagttgag catctaacta acatggtgaa gaaatatgac aaggaaagga acacctgnaa 420
 tgaattgggg aggctttcag tccgagcaga ttcttctaata ggttgggggt tggttttcaa 480
 gcttgtggag agcacttttg gttgggggtg acaagggg 518

<210> 5089
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070c03d1
 <400> 5089

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 agtttagaat acagttacac gcacaagtgc tcatcacaag accataggtc aaaacataaa 180
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 aactctccac tgcattccttg atgatttgct caacaggagt gaattctaga cctaattcaa 360
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<210> 5090
 <211> 363
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220070c04d1
 <400> 5090

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 ggaagccacc tttacacca tggggagggg ggttaattat taacacaaac cctctttacc 180
 ccattaataa ctcacactat ctgcgccagt atatactaac ttaccattaa caatgggtcac 240
 aactaccaca acccccacgt tgcctcaacc gataaagaaa ggtcaaccaa acccataatt 300
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 ggc 363

<210> 5091
 <211> 398
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220070c05a1

<400> 5091

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cgaggcccc tggcacatct acgccatgaa ctggagcgtt cgccgtgaca agaatgtccg 180
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ctcctaattc attttcatcc cctttcagga ctgtcacctg ctccgatctt cttgccactc 360
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<210> 5092
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220070c05d1

<400> 5092

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aaggtagcat taacaaacta aggctcgtt taccctctaa accctaata aaactacttt 180
cgttccaacg ccagaaactt ccaattttta cattggtttc aacaataaaa gacacaacaa 240
tacaactgtg tgtccaaatc tgaagcattc ccaattatga catgcacata cagggaacat 300
aatcagaagt gatgagttat cattaataaa atttcaaacc ctaagaatca tacgcttggt 360
ggagaaagca attgcgaccc aatcatgctg cgaagacgac caccgaagct gcttaat 417
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<210> 5093
 <211> 538
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220070c06a1

<400> 5093

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tgtactacac ttcagttggc attggaactc ctaggcacaa ctttgattta gtcattgatc 180
tttctggtga aaacttatgg tacgattgtg acactcatta caactcatca tcctacagac 240
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tcaaaccagg ttgcacaaac aatacatgcc ctgctaattg aatcaaccaa ttagccaaat 360
tcatttacag tgggtggctta ggtgaggatt tcatattcat tcgtcaaaac anagtgtctg 420
gtttgctttc tagttgtatt gacaccgatg cattcccatc attctccgac gatgangtac 480
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<210> 5094

<211> 228

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220070c06d1

<400> 5094

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tccacacttt aaatttgaaa gcttgactac tctactaagc tcttgcggtg attggcaaac 120
atgggaaacc gttttgaaca ccactagact ctactctatc caaagggaaa aaagatgaat 180
aagaacaaaa ctgctctttc attgcagcac ttgggggggg ggggcgta 228

<210> 5095

<211> 555

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220070c07a1

<400> 5095

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tgctgatgag tcaacagggga caattggcaa gcgtttggcc agcatcagtg tagagaatgt 120
 tgaatccaac aggcgtgctc ttagggagct gctttttacc gctcccgggtg ctcttaaata 180
 tctcagtggt gtcatectct ttgaggaaac tctctaccag agcacagctg caggcaagcc 240
 ctttgtggaa gtcttgaagg aggctgggtg gcttcctggc atcaagggtg acaagggcac 300
 agttgagctt gctggcacta atggagaaac caccactcag ggtctagatg gccttgggtca 360
 gcgttgcgcc aagtactatg aagccgggtg acgttttgcc aagtggcgtg ctgtgctgaa 420
 gattgggtccc aacgagccat ctgagctggc tatccatgag aatgcctatg gcttggccag 480
 atacgctgtc atatgccagg agaatggcct ggcttccatt gttgagcctg agatccttgt 540
 tgatgatctc atgac 555

<210> 5096
 <211> 195
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220070c07d1

<400> 5096

gggaaaaaac caggccatt tagggggggg ggggaacccc aaaacctccc ccaattttgg 60
 aaggacatgg gaaaaaaaaa tccctcccca accccaaatt taaaaacccc taaaaggccc 120
 caaggggccc ttttttttca agccacttt ccggggacaa aattgggggg gtaagccggg 180
 gctttttttt ttacc 195

<210> 5097
 <211> 482
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220070c08a1

<400> 5097

gaaaaataga gaactcactc agcaagctgt taaatctgca ttgcacgtgc ttatagaaac 60
 ctgtcctttg gggagaaaca gaatgaagat agttgaagca ggtgcagtgg tggaactcat 120
 tgaacttgca cttgaaaaac cagaaaagaa tatgacagaa ctcataatcta ttctcttggc 180
 tcatctttgt tcttgtgctg atgggagaga acagtttctg caacatgctg caggcattgc 240

tgtggtttca aagaggatcc ttagggtttc accaaccact gatgatcgag ctcttcatat 300
 attttccttg gtttcgaagt tctcggcctc caatgagggtc gtgcaagaga tgctgagggt 360
 tgggtgctgtg tcaaagcttt gcatgggtgtt gcaagcagat tgtgcttcct atttgaagga 420
 aaaagcaaga ggggtactta ggttgacctc aaaaacatgg aacaattctt catgtattca 480
 ag 482

<210> 5098
 <211> 513
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220070c08d1

<400> 5098

agcacaccag ttcacgaaac catatattaa gtgcgctcat tgtacatcaa tatccctaaa 60
 aattaattgg tgagggaata aatacaaaat atcaaaccac aagggttttc tgcacaaacc 120
 gcccgaggtt aaggaggtgt cacctaagga gtcacataa ctcaggaacg agtcttccat 180
 cctgcgattc tatataaaga tgccttcattg aatcccttac aaatattatc agccccaatt 240
 agtaattgaa taatctacac tcacccaacg gacaaggcag tatccccggc cagcgaaaat 300
 tctgaaatca ggaactgcca aaccagtccc aacttaaaat attgggaaga ggggggaaac 360
 taatgttgga gaaaaacgct gcatctcttc ttaaaggacc tggcaatgga ttgaatcaaa 420
 gcctgtgaaa caagttaaaa tgcccaccgt attactatca actcccacac tgtttagcct 480
 atctatgagt ccaccatttc atcttgcaat tcg 513

<210> 5099
 <211> 278
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220070c09a1

<400> 5099

ggcgactgga gcggtctggag ctcgagctta ataggtttga gcggttagag ttaattattt 60
 ggggctagtc tggaacttat aataatgtgc acatggatag cccggaaatc caagatcaaa 120
 ttgaaaaatt cgcaggaggt gggaggaaaag aaaggccgat ctaagctttg tgggatgggg 180

agtctggagg cggatatttc aatacaaagc actatgctgt tcctatagca aaaacaggga 240
 ctgttgctca taatagagat taaaacacag aacagaaa 278

<210> 5100
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220070c10a1

<400> 5100

gggatacggg tacggaatac gcatggtgta atttgtaaata aaaaaaaaaat tgacgtgcgt 60
 gtaaaaattg aggggtggat aatattccgt gttattaaaa ttaattaat atagagagtt 120
 tttataatat ggtaggattt tgatataata atatatcata tgtgtaggtt gttgttttag 180
 agaatagaga tagagaatgg ccggctggct ggagaatcct gtccagaact cacatcacat 240
 gagctgttct ttgttttggt tatttttcag aataaatggt ttactattat ttcaaaaaaa 300
 aaaaaaaaaag ggcggccgcg gcggctccac ggtttccgat tggggtttga tttgcggaga 360
 taagttaag gttggattgg tgcaggctgt tttcttcttt ggctgcatga ttg 413

<210> 5101
 <211> 500
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220070c11a1

<400> 5101

gtttcttttt cttctataga gacacacgga gagagtctca gagcaataaa cacccttcaa 60
 tggctaccac taaagtttac attgtttact attctacgta cggacatgtt gagaagtttag 120
 ctgaagagat taaaaaggga gctggttccg ttgaagggtg ggaagcaaag ctatggcagg 180
 tacctgaaac actttctgaa gaggtccttg ggaagatggg tgcacctcca aagagtgatg 240
 taccgattat tacacccaac gagctacctg aggctgatgg cttattgctt ggtttcccca 300
 caagatttgg actgatggct gctcaattca aagctttcat ggatgcaact ggaggcctgt 360
 ggcgcacaca ggcactagct ggaaagcctg caggaatctt ttacagcact ggttcttaag 420

gaggtggaca agagacntac tccgtgacat ctattactca gcttgttcac catgggatga 480
 tttttgtgcc attggttaca 500

<210> 5102
 <211> 569
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220070c12a1
 <400> 5102

tgggttttca ccgatcaagc attgcctaatt gatcttgtca agagaggagt tgctggtaag 60
 gatccatctg ctccccatgg agttcgactt ttgatcgagg actatcctta tgcttctgat 120
 gggctagaga tatgggatgc tatcaagtct tgggtggaag aatatgtctc attctactac 180
 aagtcagatg aggaacttca aaaagacccc gagctccaag cttgggtggaa agaacttgta 240
 gaggtgggtc atggggattt gaaggataag ccatgggtggc aaaagatgca aactcgtgaa 300
 gagttggttg aagcttccgc taccctcata tggattgctt cagctcttca tgctgctgtt 360
 aactttggac agtatccata tggaggttta atcctgaata ggccaactat tagcaggaga 420
 ttcatgcctg agaaagggtc tcctgaatat gatgcgtag ctaagaaccc tgagaaggag 480
 tttttgaaga ctattactgg caagaaagag accctcattg accttacaat tatagaacat 540
 ttatcaaggc acgcatctga tgagttcta 569

<210> 5103
 <211> 512
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220070d01a1
 <400> 5103

aattagagga aaaagaggct gagatttcat caatgcacaa tgctttgttg gcaaaagaag 60
 aaaactccct ctttccagca tctcaaata gagatctctt tgacaagata gataggatca 120
 aaatccctat tgtagagtcc aaagaagatg atttgagacc acatacttca gccctatga 180
 gaaaactctt ttatattatt gatagtgttc ctaggttgca tgatcaaata aactctctgt 240
 ctcatgataa agaaaagctg caatcaatcc ttgaaactag ggatcttgac attaaggatc 300

tgaaggatga agtcaaacaa ctcaatagaa tctgtgaaga ctctaaaatg atcaagaatg 360
aattgtctga gctcacctat gtattagaaa aaattatgga tattctggga gctgggtgaat 420
gggtttaga taggaaatct aaagggtcga aggaattaat accagcattg gagaagcata 480
tcattgccat tctttcagaa tctgaaaatt ca 512

<210> 5104
<211> 540
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070d01d1
<400> 5104

catccttcaa cttcattctc attcactgct tgagatataa ataagtcac cttaaaatct 60
ttctacattt ttattacatt aacgttcgaa aaaattcatc tacctatttt ctacccacca 120
aatcctttta tattgaagca atcaaacaat tgtaggctaa tacaatggag gggcttcgat 180
tttaaagaaa aagaaggctg tcaaaaaatg agcccaaaca ttgaagacca gaatctctga 240
atccctaaaa tgtgattgca gagaacaaat agtgaattga cgagactaaa gaaaaacagg 300
ctaaagaagc aaaaagaaag acatgaataa aaagggacaa ttttatatcg ataatacaat 360
ttgcagacgc acgacattca atgttgagca gtccaggtag gtttggtcac aacttttcta 420
caagatcgtc cccagtagcc atatatgcaa gacaaacaaa tagccaataa gtcctaattct 480
tgctctagga tgactcatga gaaccgggcc accagatacc cagagtccat caatacgatc 540

<210> 5105
<211> 562
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220070d02a1
<400> 5105

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aaaccgatgc agcatcctaa gcatcaacga ttggcacaaa acatcaacga tttcttctcc 120
ccagagggttg tgattgagtt gttcaagggt tgtagctgta gctgatatga tccatcgata 180
atctagacaa tgggatacac aaattcttag atctcttttt cctgataaca attctaaaaa 240

atattggcta tctctatttc cctctcaatc caacaaaata aactgatgtg gaaacactca 300
acgatggtct tttttctgtg aagtttggat accatgttga gctcaaaaga tcctctacag 360
gagtccttc tcccagctcc attcatggtg atttatggca caagttgtga aagattacag 420
tcgtcctgaa ttttgtgtgg agggctcgca aagacatcct ctcggtgatg tccaatctaa 480
aactccaagt ttatcatatc tgnttgaggt gtggagagac acctgaaatt gtggtccatg 540
ctctcctctt ttgtgagaag aa 562

<210> 5106
<211> 472
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070d02d1
<400> 5106

aataaaacta taaatatatt cacataagta tgaatgttga gtttctacag gcaagtaaaa 60
taatttatag gactaatgaa atattcaaca ctaccctcaa tggcaaagct acagtccaag 120
tccaatttaa cgaatatata atataaataa aaaagagata gcgaagaaaa aaggattaga 180
aagtatcgtt ttctctgac ttctgagaaa cttctgggaa tcgggtcccaa acggttaaac 240
gacgcacgtg acgtctccgc gtgccggttt cggattccct acagcactac gtatctaate 300
taaaatgttt cattcgatta gccgtcgccg cgtgtcagtt gcacaccctt tgatttgtgc 360
tgtgacacgg actcaaccac ggcgattcct gattctcgcg atggttctgg caatccaacg 420
gctcagattt cacgtctgca gaaccacgt gatgcaggcg cagcagggta tc 472

<210> 5107
<211> 502
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220070d03a1
<400> 5107

gtggaaaacc aaagggaaga tgggggttgt gatcgttttc ctgtgggtat gcgtgttctt 60
gctgtggatg acgacccaat ttgcctcaag gtgttgaga atctccttcg caaatgccag 120

tatcatgtta ctacaactaa tcaggcagtt gaggcactga caatgttgag ggaaaacaga 180
aataagtttg acctcgttat cagcgatgtg aatatgcctg acattgatgg atttaagctc 240
cttgagttgg tgggacttga aatggacctt cctgtcatca tgttgtcagc acacggtgat 300
acaaagctgg tgatgaaggg tgttacacat ggtgcatgtg actatttgct gaaacctggt 360
cgaattgaag agttgaagaa catatggcaa catgtgggtc gaagaaagaa ttttgatagc 420
agggatcaga acanggcttc caatgaggag aaggctccta attttgctgg gggaggtagt 480
caaggcctaa gatcagaaaa ca 502

<210> 5108
<211> 458
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220070d03d1
<400> 5108

tttttgtttt tttttttgag cacctagaaa ttttcatatt acaattattt tatctaaacc 60
aaaggcaatt tttatgggga tacactacag attgaaagga aaaaaagatg gaacagatca 120
gatggctaac aaaagtccat aagtgaaaca acaaaatggt ggccaagaaa ataaatttag 180
tagcagaaca taaaaatagg tgtacattaa ccggtttcag agactggagc aagtttcacg 240
attttattgc tcttggttc gttctgggta agaagaaatc agttgcatga tccaacaggg 300
taggcatcaa atcccatttc tccatccaac aatgtcgact cattttgctc ctttttgacc 360
attacacca ttatgtcatc caaggtecca aaagtattct gcataaatcc atcttgggac 420
ttcatttgct ccaaaatgta ggcttcattt ggcttcag 458

<210> 5109
<211> 360
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220070d04a1
<400> 5109

caagtttctc atatgatatt gcaattttat cacttggttac ccactatata tacaactgtg 60
gggtgctagt gggagttatt gcgagctatg acatcttctt acaacacctg tatcacctgc 120

aattgcttta ggaactgtta tctctctcgc tcgcgctcca aaaaaattca aggggtgaagc 180
gtattaaggc aaagccaaaa acagctgaat tttcaatcgc aagaatgtag ttccatgcat 240
cacggaagcc aaatagttgc aatctgcaat tctgaatttc tttgtaggcg agatagggaa 300
tttgaagatt atctttaaaa aacaaaatga aaatgtttta aaagaaaacc taaaagtttg 360

<210> 5110
<211> 300
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070d04d1

<400> 5110

aaaagaggat cttggaattc cctatctcgc ctacaaagaa attcaaaatt ggggattgca 60
actattgggc ttccgggatg caaccaacaa atttttacaa ttgaaaatct aagctgtttt 120
tggttttgcc ttaatacgct ccacccttga attgaggaaa acgccagcaa gagcttttagc 180
tgttcaaaaa gcattcacag gtgaaacagg tgtttgaaa aagatgacag agtcacaaat 240
ggccacaacc cgttttacac agttgcccac ggtgtggtga acaggtgata ccctttgcaa 300

<210> 5111
<211> 561
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070d05a1

<400> 5111

gcgaaatccg ttcccctatc tgcttttcga gttgttgcta aagagtgatg gactcaccgc 60
ccagcaatca gcacgcggtc gacggagacg ccaacgacgt cgtagatcc ttttcccacc 120
gcgacgacga tgaagacggc aagccccaac ccctcaccgg ggacggcgcc agtcctggaa 180
agatattcat aggggggtta gcgagagaaa cgacgattgc gcaattcatc aagcactttg 240
gtaaatacgg tgagataacg gattccgtca tcatgaagga ccggaagacc ggccagccgc 300
gtggtttcgg cttcataact tacgctgac cctccgtggg tgatacagtg attgaggaca 360
ctcacattat caatggcaag caggtggaga ttaagcggac gataccgagg ggggctgctg 420
gctcgaactc aaaggacttc cgaacgaaga agatttttgt ggggtggaatt ccttcgactg 480

ttactgaaga tgaatttagg gacttcttta cacgctatgg agaagtcaaa gatcaccaaa 540
 taatgcggga ccactctact a 561

<210> 5112
 <211> 451
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070d05d1
 <400> 5112

ctatctaaaa agtctgaagt gtatcagaat taaataaaca aagagcagta gtgacaaagg 60
 tagccattaa caaaactaag aatacaacca tctgcacaat ttgcagctca tacatcaatc 120
 cgatagtcac acttcaactg gccgagctaa aaaattgttc ggtcatctat aggctggcga 180
 gaggggtgctg ctaataacta atgggactta acaatatcat taacagtttt ccatttttta 240
 gaaaataaaa atatgtagcc taaagaactg aataaccaa caaactacaa acttgctttg 300
 atgctagaaa tattagtctt agactataag tcttcgatga catgcttcta tcttccataa 360
 ggatggatc gaccagttcc tgcacctgcg tatccccctc tagtcccata aaatgagcct 420
 ccagcaggcc ccccatatcc accgcctaag c 451

<210> 5113
 <211> 555
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070d06a1
 <400> 5113

atcgattgta gtagtattta aaaagaaagc aagagagaga agagattggt gaagctggga 60
 tgctttcggc taagcttgct gaaactggcc tcgtctatgc tgtattgggc agttaggcga 120
 attcaaagat ctttgaacac ctcttctttt attacctttt tccaacacct acctcttctt 180
 tctctttctc cctctcacac actcgctcta gggttgattt tcccttctt ctccaatac 240
 tctccatta ttttattcga aacaccaaac caacactcta gcttcgttac ttgccctttt 300
 ctctgcccag ctacatgctt gtgtaagaac taataagcca gctgaagaat gtgggatctg 360
 aatgactccc ccgatcagag aaaggactac gagtctgaag gctgttcttc ttctctgtat 420

gatgataaag gcaagagggg ggcatctgtt tccaattcaa gctcctctgc ggtgggtccgt 480
 gaagatggat cggaagaaga agacagtgaag agaggtggaa gcagaacatt ggataacaag 540
 aaaacccaac aaata 555

<210> 5114
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220070d06d1
 <400> 5114

aggaaaaaat ttcccacgtt ggtagtttg actggcctat aacaaggcca gaggggggttc 60
 ccaatttggc tctccctatt ctttcacca atagtaaagt taccgttttg tttgggcttt 120
 tcctaaaaaa gggggggggg ggacctaaca taaaccatta tttaaactgg attcactcgt 180
 acatacatgc tcacaaaaca aataggggga gatTTTTTTT caaatggaaa atggcctggg 240
 aaaaataata tcttgggggg catgagggtc tcatgagaaa ggggaaccca tttttctgga 300
 gccaccttg ggagggtcta atttgctggg ggaatcctga tgatgccgcc acagttgctt 360
 acaaatgggg agggcccgct tgttcccttg tttttta 397

<210> 5115
 <211> 533
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220070d07a1
 <400> 5115

ggaactaaca acaacacaag gccatcatca tggcagctgc ttctcctatg gcgagccaac 60
 tcaagtccac cttcactaaa actctttag ctcccaagg cctctctgcc tcttcaccac 120
 tccacctcct gccttctaag aggcaattta gttcactgt tagggccatc caatcagaaa 180
 agccaaccta tcaagtgatt caaccaatca acggtgatcc cttcattgga agccttgaaa 240
 cccagttac atccagcccc ttgattgcat ggtacttata gaacctcccc gcatacagga 300
 ccgcagtga cccactacta agagggatcg aggtgggcct ggcccatggc taccttctgg 360
 tgggcccatt cgtgaaggcc gggcctctga ggaacaccga gatcgccggg caagcaggct 420

ctctcgccgc tgggtgggctt gtggtgatcc tcagccttng cctcacaatc tatgggattt 480
catcttttaa cgaaggagac cnaatcactg ccccgctact gaccttgacg ggc 533

<210> 5116
<211> 538
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070d07d1

<400> 5116

gaaggccaga acaggagaga gagaatttaa cattgtaaca tgttgagagt catacaatac 60
atcatttaca tccatctcta ttgcacaaat aaggatccat ttccacccat tgtccattca 120
tagagaatga ataacaacaa aaagtaaaca aagataataa gcactttctt cacttgatgt 180
agtaaggaag gtccaagacg tagaggagga agtaggccca aataacaccc gaaatgcctc 240
cgaagaagaa gcctccggtg aacttggccc acccatcagc agtttggagc tgatcgggct 300
ccttcttgcg gcccgtaag gtcagtgcg gggcagtga tgggtctcct tcgttaaaag 360
atgaaatccc atagattgtg aggcaaaggc tgaggatcac cacaagccca ccagcggcga 420
gagagcctgc ttgcccggcg atctcggtgt tcctcagagg cccggccttc acgaatgggc 480
ccaccagaag gtagccatgg gccagccca cctcgatccc tctagtagtg ggctcact 538

<210> 5117
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220070d08a1

<400> 5117

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gtctcgcaac tgcatatatt aatgattaca attcatcgct agctagagct gtgtcagaac 120
tgggtgcaaga agcacatcat gaagcccctg cttgggtctc acggtatgct gctcgatctt 180
cttttgggtgg aggcaggaac cggcgatcag gcggctcgatt tggtagtcga gactttcgaa 240
gagagggctc tttcagtaga ggttcttctg attactacag tgcgggaaac agcagtggcg 300

gtggatatgg aggctctggt gggatatgctg gtggag

336

<210> 5118
<211> 243
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070d08d1

<400> 5118

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gacacaaacc aacacaaccc aataatcaaa ctgccatata gaaatatgac atcaatcaac 120
cggacccaaa accatttgtg cacaaaaccc aaaatcaaac actgtaccct ctgatggatg 180
gatgcaaaac cccaccatta aaaaggggag aaccccccaa acaagcctct tccatggagg 240
cct 243

<210> 5119
<211> 377
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070d09a1

<400> 5119

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accacttcta cagcttgaag gccaaagttct ccaacaccta caccatcaag gtggagcacg 120
atcatcggtt ccgcgacttc aggtccatcc tgggtagagt ctggctgctc actgagctcg 180
accctacga cgtgcacggc gtcaccaaata gctgcgatct aactgcggac gagttccgct 240
gccagtgcct cgggctggag ccgatccggt ttccggcgca cgcccataat gcgcccaccc 300
tgggcaccaa ggatctcctc agggatatttt attggcgaga ccgacgagcc gtcactaacg 360
tcaaggacca acgggacg 377

<210> 5120
<211> 460
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070d10a1

<400> 5120

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tagaggatac atctggacct tcacttaaca tccttattaa gtcctatggcg gttgagtctc 120
ttgtgtttgc tcccttcttt gctacacatg gggggctact ctttaagatc ttaaaggatt 180
tgattgaaaa agagtatcgt ccatcatttt ttacatcga cagaacaagg aaaagccgtc 240
ctttaccaat gccttctcgt ttttgcgtta gtctttaact catctgtcat gtcaattcca 300
ttgtgtttga aaccttttcc tccccacct ttgaaacaaa gtatatatttg tctcatgtta 360
gtttaagaca actttgatta ggctgagtct gttgcgaaaa tttttcttgt atgatgacga 420
tgatgtttac catctctttc ccgggggtcaa ttttttaaat 460

<210> 5121

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220070d11a1

<400> 5121

nggcgacgag actgcatgcc attacgnagc tggccatagc ggtggaggcg gttcgagcga 60
aaccctaatt tctttaatcc tttttttgga attcgacaat ggagcagggg gggagctggg 120
ggatgttcaa cctgttcgtg acgcactagg acgggaaaac cctaaccctc ctattcctca 180
atccgaggcg gtatgcaagt ggcaccgaag ctttactact ttaaagtggg gtacttcttt 240
gacagagagg ctgcgcaaga ccttaccatc atgaaaataa aggatggcat gtccactttg 300
tgcaaccatt acttcatcaa cctgtggccg gttccggcga tcggattccg gtcgaccctt 360
aatcaagtgc aatgattgtg gagcacgggt cattgaggcc aagtgaaca aaaccctata 420
tgagtggcta gccctgaagg att 443

<210> 5122

<211> 588

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220070d12a1

<400> 5122

ctggtgcaca gtaacagtgt cacctgaaaa ttttggacat ggatctcctc caaaatgtct 60
tgaagaaact ctcaagtggaa gctatttgtt cctgatcatt ttaacctcag aaaataaata 120
gattaaactc tccagattga tttttccac cactattcat ttcaatacag ttcttttggg 180
tcaaccaaag tctacacttc tgaatctgat caacacgagc attattatct tggctttacc 240
aaggtgaagt tgcagaaaac acaacacacc atatggttga aagcctgtaa agattgctga 300
gatgattgtg gatatgtgta tatacttgtg ttctgcatgt tatacagagg tgaaagggtga 360
tgatttgctt ggtgcactat gagacgatac tgaattgagt ccatgtgcta gtgtttttaga 420
cttaggtgtg gaagcctctt gcttccctgta atattagttt tcccttgtaa gctgcattca 480
tagtgattta gtttctttct tccctgtaaga aacttctcaa gatgataaag atcagattca 540
gtcattttgg tttcgttatt tcatgcattg tggcctttgg ttctaaaa 588

<210> 5123
<211> 561
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220070e01a1
<400> 5123

tatctctcta ttattctcgt tttcaatatg cagatcttcg tcaaaaccct aaccggtaaa 60
acgattacgc tagaggtcga gtcctccgac acaatcgata acgtgaaagc taaaatccaa 120
gacaaggaag gcattccacc ggatcagcag cgtttgatct tcgccggtaa acaactcgaa 180
gacggcagaa ctctcgccga ttacaatatc cagaaagaat cgacgctcca cctcgtcctc 240
cgcttccgcg gtggcatgca aatcttcgtc aaaaccctaa ccggtaaaac gattacgcta 300
gaggctgagt cctctgacac catcgataac gtgaaagcta agatccagga caaggaaggc 360
attccaccag accagcagcg cttgatcttc gccggaaaac agctcgaaga cggcagaacc 420
ctcgccgatt acaatattca gaaagaatcg acgcttcacg tgggtgcttcg actccgcgga 480
gggatgcaga tcttcgtgaa gacgctcacc gggaaaacta ttactctgga ggtggagagt 540
tctgatacga tcgataacgt g 561

<210> 5124
<211> 477

<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070e01d1
<400> 5124

gctattacaa aacgaagaaa ctattattgg aattcattca aattgaagtg cacatgatta 60
ataagattca accaaactag agaaggccac cacggagcct aaggacaaca tagacataga 120
aattttgtta tatcatcac attcaaggaa gagaaaatct caatagcaag attcaactga 180
aactagaaat cgccaccacg gagcctaaga acaaggggaa gcgtggattc cttctgaata 240
ttgtaatcgg cgagagtgcg tccgtcttcg agctgcttcc cagcgaagat aagacgctgc 300
tgatccggtg gaatcccttc cttatcctga atcttcgcct tcacgttata gatcgtatca 360
gaactctcca cctccagagt aatagttttc ccggtgagcg tcttcacgaa gatctgcata 420
cctccgcgga gtcgaagcac cagatgaagc gtcgattctt tctgaatatt gtaatcg 477

<210> 5125
<211> 403
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070e02a1
<400> 5125

tatctctcta ttattctcgt tttcaatatg cagatcttcg tcaaaaccct aaccggtaaa 60
acgattacgc tagaggtcga gtcctccgac acaatcgata acgtgaaagc taaaatccaa 120
gacaaggaag gcattccacc ggatcagcag cgttagatct tcgccggtaa acaactcgaa 180
gacggcagaa ctctcgccga ttacaatata cagaaagaat cgacgctcca cctcgttctc 240
cgacttcgcg gtggcatgca aatcttcgta aaaaccctaa ccggtaaaac gattacgcta 300
gaggtcgagt cctctgacac catcgataac gtgaaagcta agatccagga caaggaatgc 360
attccaccag accagcagcg cttgatcttc gccgggaaac agc 403

<210> 5126
<211> 519
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070e02d1

<400> 5126

cattatagcc tgtttttcaa aaatcaacca catatatgaa tatatcccag tttcttccca 60
atcaaattat accaagcact aattcttggt tcagatcata aggatccaag tattgggggt 120
aactttaacc tcagcatgag ccaaacctcc tctgcaaagt atcctttgaa tacattctaa 180
acagtcacaa tctcaaagtc tgcattgctga gaacaattgc ggaagtaggc tgttatatgg 240
tcaagggtgt tgatgaagat tttatatggt tgatccaact ccaaagttca atgacttcaa 300
tttagtagaa ggcaaacatg ctggcttcac aagggtgac gctccacaag taaccttaac 360
tgtacagaag gatagtttaa cagcttctgc attatgatgt ccttgtaaca tattgatcaa 420
accatgtaaa gtctcctctt ttttccttcg acgacatttt tccaatcgat catgtgggtc 480
atgtatatca atgaccaagc catccataga aggaagccg 519

<210> 5127

<211> 581

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070e03a1

<400> 5127

attttatcaa ttagtgcca tgttgccaag ctgtttaaag agagatttgt gaatgttcat 60
tgatcaatgc tttagaaaac tttgttatgc ttctagcaga taatctggag gcaaatagat 120
tacggtgtgg taagcttggc aaagacccta ctgttgaaac tagctttcta cctgacagga 180
gtgctgagga ttcttgttca gtgagcgaga ggctgaggag caagctgagc gtgaaaggct 240
gcgcaaacag tggcttcgtg agcaggagca aattcgaaat gagcctcttg aaatcacata 300
cagctattgg gatggaactg gccacaggcg tgtgatccag gtacgcaagg gtgacagcat 360
aggagagttt ctctgagcag ttcaacagca acttgctcct gaattccgag agattcgaac 420
aacatcagta gaaaatttgt tatacgtgaa agaagacctt atcattcctc atgtattagc 480
ttttaattca aaaactctgt gtgcaacttg ctatcttggg tgtgtgtgta taagctatgt 540
taacattatt ttaaccaaag gatattctgt aacttattta c 581

<210> 5128

<211> 418

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070e03d1
 <400> 5128

gcatgtaata aagggatcat gggatatatc atagcatagg tatttcatac attgttcttt 60
 tgaggagcac atgcagcaat tcagtcttac tacatgattc tctttattta gaaaacaaag 120
 ttttaccaat taaacaaact tatcagctag gctttgcacc ttagacaaac tgattaaggt 180
 actcatccac agggatgtat ttcacatcag gatatagagc tgaagcttcc actccaaaag 240
 aagactcaat ttcaaagtta gtatgatccc ccttaacata agaagagtgg ttaattgaca 300
 gggtcacatt cacgggtggg gcggactcct taatttgctt caggagtgtt ttttttggaa 360
 cataaattct ttgaagagtt ctaccaatct ttcctccca gagagtaaca agctcatt 418

<210> 5129
 <211> 526
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070e04a1
 <400> 5129

gctagtctca gtttagttag caaacaaccc cacaggccac atccaaaggt tcatttcaat 60
 atggcaatct tgtcaagttt tgctcctttg accattctta gtttagtctt gttagtgggt 120
 ggaatcattg tgtctggggg tgaagctagg ccaagagcat tctttgtgtt tggagattca 180
 cttgttgaca atggaaataa caattacttg gccaccacgg cacgtgccga tgctcctcct 240
 tatgggattg attaccctcc aactcataga ccaactgggc gtttctccaa tggctacaac 300
 attcctgac ttatcagtca gagacttggt gcagagtcaa cattgccata cttgagtcca 360
 gaattaagag gagataagct actagttggt gccaatctcg cttcagctgg aattggaatc 420
 cttaatgaca ctggagttca gtttgtaaac gtgatcagaa tgtatagaca gctagaatat 480
 tttaaggagt atcaaaaccg agtgagtgtc ataattggag cttcag 526

<210> 5130
 <211> 430
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220070e04d1

<400> 5130

aacatataac tttccttaca attaataaac taaaacatgt agacagagaa atgtcatgaa 60
ctagcaagga aggtgaatac aattaatttt gttctaggaa atttgggttt gtttatcttc 120
atgtgtttgc gtccaacgct aagatgggtgc taaggttcat tgggttcatg taggctttag 180
aacctgacat aatttctctc acaatgagcc tattggcctt ttcagatgga tggaatgcat 240
cccaaatgc atactgctct ctgttggagc aaaggttggg gagtgctgtg catagcccaa 300
gtccattgta aggtccttgc ccacagcaag ctacttgtga tgtaacaaat ccaaattgtt 360
gggggttagt aacgaagtcg ttgtgagctt ttctgtgtt tgcagcaatg ataacgtcac 420
ttccaatttt 430

<210> 5131

<211> 544

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070e05a1

<400> 5131

atctgaagtg tgtgtagagt taacaagacc agagagagag acgaagccga acgaaacata 60
aataaaacct tgctcttttt tcacgcccta gtcattttc ttctccgttc tcttctctct 120
gttctcact cactcgcatt tattcaccat gactaagcaa caagctaatt ggtctccata 180
cgataacaac ggaggatcat gtgttgcaat tgctggagca gattactgcg tcatcgccgc 240
ggatacgagg atgtccaccg gttacaatat cctcactcgc gattactcca aaatctccca 300
actggcggag aagtgtgta tggcttcttc tggttttcaa gctgatgtca aagctttgca 360
gaaggttttg tctgctaggc atttgattta tcagcatcaa cacaacaaac aaatgagctg 420
ccctgcgatg gtcagttgc tctcaaacac tctttattac aaacgcttct ttccttatta 480
tgctttcaat gttttgggtg gccttgacaa tgaaggaaag ggatgtgtct tcacatatga 540
tgct 544

<210> 5132

<211> 445

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220070e05d1

<400> 5132

tgaaatgcat ngcatncgat tcnctgggat gtaattaatt ngccgagatg cctagctcac 60
 tagccggcct ccgccctttt tattctctct tttacattct gtatcacttc ttcattaaac 120
 ctaagggatt tggggatact ttttaatacat ttaccggcaa tcccccattht atttatccta 180
 gttcctcgct ttcttcttga tgacgctgtc ctttcttttt gatagaaaat aacaccctta 240
 ctactattac tatactacgt ggtttcacca ccaatcaaca atggtttttaa cctcttctcc 300
 cacacactcc tctacacgct tegtctgcct cccctccttt ttacactcca accaccgttt 360
 agctttcggt cgtagagtcc gttataacct ttcacacca aatctccata atctcaccat 420
 ttaaattctc tttcccaact tccca 445

<210> 5133
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070e06a1

<400> 5133

gatcttcttg acatcgactc cattgttgct gccataaagg gttgttccgg cgtaatccac 60
 ggtgcatgtt ctaacatcat tgggtcaagtc gaagatcccg agaaacagat attggaaccg 120
 gcgataaaaag gaacggctaa tgtgttgaag gcggcgaagg aagcaggggt ggagcgcgtg 180
 gtggcgactt catcgatttc gtcgattatg ccaagtccta attggccagc tgataagatt 240
 aagggagaag agtggtggac ggaccctgaa tactgcaagc aaaaggggtt gtattatctc 300
 attgcacaga ctctagcaga gaaagcgggt tgggactttg cgaaggagac aggttttgat 360
 gttgtcatga taaaccctgg tacagcattg gggcctctgc ttcctccaga atcaatttaa 420
 gcatggttgt gcttgtagt gttctcaaag ggggcaaag 459

<210> 5134
 <211> 538
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220070e06d1

<400> 5134

acagaaattg atgtattcat tgaacaaata atgagatttg ctacatcaca agcccaaaaa 60
tattccttcat gaatcatcac aataatgcgc aagcttttatt acaccacaaa caatgcgcac 120
ttaaatacac aggcacagta aaccagaga tagcttttga cttattctct tctgggtcgaa 180
catagccctc gcccacata caccagaatc atttgcctc tccccaaaa caaaacaagt 240
gttaatttca atttatccat gtggtatggt atggggacat aataatttac ccctagtttt 300
attgatgtac attttatttc acgtgtttat atgaaagact tgaaataatt gaagagacgt 360
accacatggg ataaattgaa attaactcag cagaagcaa tagattactc tagtatatat 420
agtatgatgt tttttttttt ccgataaaat atagtatgat atgtttttga acagtggaca 480
atgcaaatta tatatagggg ttttctgga ctagaataat tgaagtgaca tgaaattt 538

<210> 5135

<211> 480

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220070e07a1

<400> 5135

ggtcaacctc tggtttgacc cttctgcgga tttcacact tatactatta tgtggaatca 60
tcatcatatc gtgttctacg ttgatgattt tcccattaga gtgtacaaga acagtgaggg 120
aaaggaatc ccatacccaa caatgcaagc aatgggagtg tattcaacat tgtgggaggc 180
tgataattgg gcaacaagag gggggttgga gaaaattgat tggagtaagg caccttttta 240
tgcatattac aaggactttg acattgaagg gtgcccagtg ccaggacctg ccaactgtgc 300
ctctaacc aaagtaattggt gggaaggggc tgcataccaa gctcttaatg ccattgaagc 360
ccgaaggtag aggtgggttc gtctcaacca tatcatctat gattactgcc aagataagtc 420
aaggttctca gtgacccac agagtgcctt gccgcattta aacnctta tcaagtcact 480

<210> 5136

<211> 372

<212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220070e07d1

 <400> 5136

 ttcccttcctt tttttttttt ttctctgtat ttttccattc tttttttttc tttttggggg 60
 tccgggtaaa aactagttcc gatttccact ttaacccatg ggacaataaa aaaccctttg 120
 tactccccct ttttcttctc tctttccccc ttaggcgggg acctttattg cgccctacct 180
 ttggccctct ccctaacaaa ggcattggtg cccacaatt attctaaaac ttgtcctctt 240
 ttggttgtag ccagggcact tccctacata aactaacctt tttgttttaa tacaaaaaac 300
 ccccttgga taactaaatt tccatgggcc cattggaaat ccggtgaaag agtccttttt 360
 tttttgctag at 372

<210> 5137
 <211> 509
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220070e08a1

 <400> 5137

 ctctctctca cttgggtacg tatgttgtgt tcttcatttt ccaattgcat gtgatctctc 60
 atttctcaat tcaatttctc ccctttccct cttccctta atctgtgagg aaaaggaat 120
 tatgggttct ctttatttca gttcaatttt tccttttagt gttaaaaata ttacctttat 180
 tattattatt attattgtgt ggagattgat tcatgtaatt tgttgaaggg ttgaagatga 240
 gaatttgtgg agcaggatat gtttgatatt agatttcctt taatttattt ggtggactta 300
 tttcctgcat gtttctgcac ccaattctat taacaattct tggatcatgt agtttggttt 360
 atttttatgt gattctgggg caattctcaa tttatgtaaa gcattggagc aaggagggtg 420
 cacattaggc cagctgtttg catgaaaaaa tatgaattta tntattggca ccaatcttga 480
 cccaatacgg atatccattc atttggttg 509

<210> 5138
 <211> 491
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220070e09a1

<400> 5138

agatcatagt atgnccctcg angangttgc acggaaagag ggcgnaagtc tnggaaaggc 60
ctctacgagc gaataaacgc tacctgttat ttgctcgcta tcttnaatac tatggaaatc 120
gactgtgcag tgaggcactc gtgggggcttt ttctattgcc cccaatcccc gctggcgagc 180
tccgtaccag aaagattctc tggcacctag ttactatca atgctcgagc agttttgtgg 240
ctcatcgccg tctttcaggc tggcgatgtc ttaatacaat catatcacia tttcatcaca 300
gactttgaga cgaaactcaa ccttcttaag cttgcacatt ttgctgccac agattctcgg 360
cagtattttg aaaaagaagc tgctgttggc taacttggag gggtgattta caaacttcaa 420
gacactttgg agcagcgcat agataaaacc tatcttttac atttagatgt caatagccat 480
tttcatgctt g 491

<210> 5139

<211> 271

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220070e11a1

<400> 5139

gaatatgtgt gctgagaatt gaatgttttt attggtttta acaatgtaga gaggaacccg 60
ttgttgattg aggaaggtagg tttttgactt tcggttcttt tggttctttt ggttcttttg 120
gagttgtcgg tgggtggtttt ggagtgttgc cgaaatgaat gattctactg tgaagacttg 180
gccatcacgg agaagaaggt gcatcagctt aaacctgggtg gctgcgttgg cattctcttt 240
caccttattg attggaagag gcaactctcc a 271

<210> 5140

<211> 565

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220070e12a1

<400> 5140

ctcgagccga atcgggtcga gaaaagattc aggatcagga attaatccac tagatatccc 60
aaagatatc actaagtttg cacaaaacca atcggttaaca acaagaaatc ctgctggaag 120
tggaacttggc ctggcaattt gtaggagggt tgtaaattctt atggaaggac atatttgggt 180
tgaaagcgaa ggtattgata aaggatgtac agtcactttt attgtaaaac ttggaatccc 240
agaccgatca aatgaattta agctaccttt tgtacctaaa gtaccgggaa atcatggatc 300
tacaaacttt gctgggctca aagttcttgt cacggatgac aatgggggta gcaggacagt 360
aaciaaggga cttcttatgc atttaggatg tgatgtcacc acagcaagct caagtgaaga 420
atgtctgcgt gttgtttctc tggaacatga agtgggtcttc atggatgtct gtgcagggt 480
agatgggtat gaactagcan tccgtataca tgaaaagtta ctaaacaatca agattgacca 540
ctaatagttg ctcttactgg aaaca 565

<210> 5141

<211> 518

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220070f01a1

<400> 5141

acagaataag aaagagagga agccgtagat tccaacgctt tctctctgag tcacacacac 60
acacacattg cagcaacaac aacaaccaca cccgattcca tgagtcgcta cgatcccaat 120
cccttcgacg aagaaccggt cgagggttaat cccttcgcgg atggagcagc taaaggaaaa 180
ggctcagggc aatcaagtta tagtggagggt gcattttata ctactaacac tggaagtgtt 240
ccctcctcaa actcaagggt ctcacccctt ccaccagagc cttatgatcg tggggcaact 300
attgacatcc ccctaaataa tgcaaaggac gcaaaagcaa aggagaagga acttcaagct 360
aaagaggctg aattgaaaag aagggaacag gaactaaaac gaagggaaga tgctatagca 420
cgaagctgaa tagttataga ggagaaaaat tggccacctt ttttcccatc attcatcatg 480
acattgcana ggaaatacca gtacatcttc aaaggatc 518

<210> 5142

<211> 484

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070f01d1

<400> 5142

ggtaaggggc tatctcaaac aatgatttct atatatgcac aactaagctt ctatcttaat 60
taggtgggtt gacacaaacc taggaaaacg catcccagta ttaaacaag agtaaagttt 120
gtaaggagaa ctggtaatgg taactcaaga aatcattttt cgggtatata cattaggaaa 180
acaattgtaa gtgccatgtt atagagctgc catcattgtc cctctcgag cctcacgctt 240
taaaactgca gccttgccac tgccacggaa gtacatatat acttgctgta taaccagat 300
gctcagcact gactcgagac agaaaaggcc aaatccaatg aagtagaata tcccaaccaa 360
tgcattgtct cccaacacat caatcgagc caaatgcct gtgagagatt ttcctttgaa 420
gataattggt ggagcaactg cagctaaaat gcaaaaggca atgtgcaaca tgtaaagcaa 480
gaag 484

<210> 5143
<211> 559
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220070f02a1

<400> 5143

ggcaatttta gctgcatctg gaaagttttc tctgtgtccc tctcctttg tcatcaacct 60
accactgta tcttatctac ttttccgtgc actgcttcac tacatctatg ttggctggac 120
ccagattccc caggaacaac tcggttcttt gagggattta agtctacagt ttgaagtgac 180
accactgggtg aagcagtgtg aagagactat ggaacggttt aagctagata agaagttggt 240
tgacacgggc aagaatgtgg agttaacata tccatctatc cgacctcatt gctcaacttt 300
gccctcactt cctgtcagca ctcagcaact gaaacaattg aaattaacag gccagtacag 360
tgatgtaaac atctacattg agggttatgg gctcattgca cgagctcata aaattgttct 420
tagcttatgg agtatccnct ctgctcggat gttcacaaat ggaatgagtg aaagcatgtc 480
cctcgaggct actttaaggg atgtcccacc ggaagctttc aaggcctatg ctaacttttt 540

atatgatggg caattgaat

559

<210> 5144
<211> 212
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070f02d1

<400> 5144

catcaatctt tggagaaggc ctacttcctc tgcgatgact tggagagcca gaatcaacac 60
gtgactgttt ccttcctcta tgaggatgaag tttctctatg acatttttga gaaacaggtg 120
atttccttgt ataaggactt acactcctac ttctgtttct tcttgaagca gatgaacgat 180
gatcaagtga tctatctgaa tctcgtcttc tg 212

<210> 5145
<211> 591
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220070f03a1

<400> 5145

gaagggaaga ctaaaactaa aacccccactc tctttttccg agtcttccag tgaaagaaag 60
gcagcgatgg aagaagactt cgacatcccc ggcggcgagg aaatggatct cggcgaagac 120
gaggtcggcg aggagaggga gatcggctct ggcggcctca agaagaagct cctcaaggaa 180
ggatcaaggct gggaaacccc cgaagtcggt gacgaagtcc aagttcatta cacgggggact 240
ttgctcgacg ggactaagtt cgattcgagc cgcgacaggg attctccctt cagcttcacg 300
ctcggacaag ggcaagtaat taaaggatgg gatgaaggta ttaaaacat gaagaaaggt 360
gaaaatgcta ttttcacat cctcccgag ctagcttatg gtgaatctgg tccccctct 420
actattcctc ctaatgctac actccaattt gatgttgagc tgctgtcatg gactagtgt 480
aaggacatat gncaggatgg cggatatnt aagaagataa ttactgaggg ggagaaatgg 540
gagaacccta aggatcctga tgaagtattg ggtaagtatg aaagtcatt a 591

<210> 5146
<211> 497

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070f03d1

<400> 5146

gaaaatagta acaattgaca aattcttgtt attgacaata acattgtatt ttgaggatac 60
atcattatga caaatgacaa cacaatagta ttgaacccaa gtgttgatta ctttctctct 120
ctctctcatt ctctctctct aattaacatc ttattctgtt ggaaattatg aactggaaac 180
tgacatatg acgcacataa ctcttttgct tgcttaagta tatagaaaca tgaaatggta 240
gatgtataga gatctcactg agatgatccc ttaagcttct tagcaatgcc agcaaagtac 300
ttcccttgat gaaaagcttg agccaattct aactcagttg gttgtctgga accatccccg 360
gcataggtac ctgcaccata aggggatcca cccttcacat tctccatctc aaacatccca 420
gcacaaatgt gtaaccaatg ggcacaaaaa tcatcccatg gtgaacaagc tgagtaatag 480
atgtcaacgg agtagtc 497

<210> 5147
<211> 411
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070f04a1

<400> 5147

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ctatctttga tccatcaaag tctacatcat attccaatat tacatgcaca tctacgcttt 120
gcaccagct ctctactgct acagggaatg agccgggatg ttcagcctcc acaaaagcat 180
gcatatacgg catccagtac ggtgacagtt cgttctccgt tggctacttc agccgcgagc 240
ggctctccgt gaccgccacc gacatcgctg acaacttctt cttcggttgc ggccaaaaca 300
accagggcct ctttggtggc tccgcgggcc tcatcggcct cggccgccac cccatctcct 360
tcgtccaaca aaccgccgcc gtatatcgta aaatctcttc ttactgcctc c 411

<210> 5148
<211> 364
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070f04d1

<400> 5148

ccaacaaact tttattttaa acccgggccc ggttcccatt ttttttttc ccccttcca 60
tttgtccaat ggcaagcaac cccccgggtg gggagaaata ttttcccccc cctttttttt 120
tttgggcccc aaactttttt ttttttaatc cccccctttt gggttccctt ttttttcaat 180
ggccccgggt cccccccctt tgcaataaag ggacccccct tttttttgaa gcccctaacc 240
ccataaaaaat ggatttttct ttaaccaccc caaagcattt gttaaattta aaaaactggg 300
ggcccccagc cccaaaccca ttttttcccc ccccaaaatt aaacaaaacc tttttggttt 360
ttgg 364

<210> 5149

<211> 428

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070f05a1

<400> 5149

gttttaaccc atttgttttg ctttatcttt ttcacttttc agatcctttt tcgctcaatt 60
ctgagcagaa aacttatatc cttgtctgag gttaactttt ttcacgggta atccccctcc 120
tccctacgga tcgtgtcttt tctttccctc attacattcc tttaaagttc aaaccactcc 180
tccaaccgca ccctttttct tgtaggacac aacagacaac aaccagagca agaagaacca 240
gtttttgttt gtgtgtctat ttcagctgcc aaatatggat aggagcgggc aaataccagc 300
gtttgggaac tgggattacg cgaacgagtt gccaatcact cagtacttcg agagtgcgag 360
acaagctggt taagtctgta cagttccttc tccggcgaaa gtgaccctta cgtgcgtgca 420
gatcgaga 428

<210> 5150

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070f05d1

<400> 5150

agatgcaagt atttatacga gttggcgata ttataaatgt ataatgcaga tacaagggtga 60
 atgcatccaa gattagagca taaaatttga aactttctcaa gggagaaatc tggctgtaca 120
 ggacaatgat tcaagttgtc tccctagtgt acattatttt gcttacaagc caagagcacc 180
 aaggggtgtc ttgccctggc cagcctcaaa gtagaaaatc agcatagcca acatagcaat 240
 cctagcatgc ttaatctcag ccaatttcag tctctctagc ttgtcggcat ccggaatgta 300
 aacgccatcc ttgatagctc cagcaaatcc caaagggtca aagaattttc ctccagggtga 360
 gccttgttca ccagtagagt tgccaaagtt ctgagcagtt tttgaccatg gagtggccca 420
 ctccactgac tgagaatctg ggttgaagat gtccacccat tttttgcttt aaccacccc 480
 atttgagca act 493

<210> 5151
 <211> 363
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070f06a1
 <400> 5151

ctaaaattat agggctaagg ctatcaagtt caaaggcaat ggaattttctc aggtgccctg 60
 tttctgcatt tttattccca gcgttttgct ttattatttt ctttatcttc tttccttgga 120
 aagaacaaaa ctatgctaca cacttccctc ctcccttggt cctttccact attatcaaag 180
 acttaaacaa ccacacaaat attataacct ctccctctcc ctctccctct ccctctcctt 240
 cactacaacc accacctctc ctcccacttg agcttctttc caattttact cctgcaaagt 300
 aaagctacaa taacactact gttttaagta gcactattat gaaatatcca agtttggaga 360
 aaa 363

<210> 5152
 <211> 335
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070f06d1
 <400> 5152

actagttggg aatgtctttc taatatacca agagagaacg tatatatata tccatacata 60

aatacacccat ggagccatat atgcaaccaa ccacaaataa aagctgattt ctgaaataca 120
 atgaacagct ataacctaaa atacagatac tatttctaca tttttcccct tcaacaactt 180
 ctatctatca tacacctata taatcaaatt attgagacta ttttaaaacc acaaaagctt 240
 aaagaaaagt gttgcaccac agcagcagtt ggcagagtag aaaaatcgta gcactaatg 300
 tttatagcac cacaactagg cttctagagg aattc 335

<210> 5153
 <211> 438
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220070f07a1

<400> 5153

gggaaagttg ttagaaatca accaaaaata aagcaataaa caaaagagta tgggttctta 60
 gtcaaattag tagtcatttg ataagtatgg gagacataaa aatttataga aatcacttaa 120
 ataaaagatg attaactctc cccccccccc cccaaaaaaa aaaaaacaga catgcacttg 180
 gacatgttga aattttaagg gtgttttata aactggctg aaattccata ctgagctttt 240
 ttttgttgaa aaatttgaga actgaatttc tagtaagaat tgaatttgga gctttggaaa 300
 tgatcctcat ttgacatctt gaaagtgtat tgaaggaaat ccggaaagta ttgtcattta 360
 aaaaatgaat gatgatgtgt tgaagaggct gcagaagaat ataacttagt ccatgaacta 420
 aatggttata tctttttt 438

<210> 5154
 <211> 526
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220070f07d1

<400> 5154

aaacaatgaa aatccttcat ttattggtgt acatatttgg cttaaagaaga taatagaaca 60
 tatctctgtg taagcctact cagtaatctc aaatgcaatt tataattatg gaccaggaaa 120
 gtgagaaata catccaaata aaccatgtta aaaaagaaag aaaccaaatt ctgagctagg 180
 gaaagctatc ccagcaacaa ttaactctca gtaaatgagg tgattgaaca tggaggcacc 240

cttcaaggct aagtcagatt ggggatatca acattctctg ttgagtcaat ctaaaatcat 300
 ctcaacaacc cataacagca caattataca cgaacacccc gacatgctcc ttcacgcca 360
 gtacctgcca atctatgggtg ccattgctga tccctgactt aggacaccat gaactcagca 420
 caatagcttc accttctgga cccctttgtc caccacaac caaaagttgc tctccacaag 480
 ccttgaaagc caacccccaa ccattagaag aatctgctcg gactgg 526

<210> 5155
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n. locations
 <223> Clone ID: jC-gmfl02220070f08a1

<400> 5155

gtgctgtgag aaatttatag agagagaaag agagatgtgt ttggtttgtg gaataattgg 60
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 gcgataggaa cgaaaagaaa ggcgaagata ttaagctttg gggagttttc atcttcggat 180
 taatcggcgc caccgtcact gctttctccc tgtccaggtc gcaggcaaaa ggaggcagct 240
 ctttccgaac agcatttcaa gaagaagcat ggaagaggta caataagcga ttgcaagagg 300
 agtatgaaga ggagatggag aggggtggaac gaataagacg tatgcaaagt gtgtttaata 360
 gagaaagga taagcttaga agaaactacg agagctggaa ggaaaatggg gccggtgcac 420
 atcatcaaca ttncaaaga gatgattggt attggaag 458

<210> 5156
 <211> 390
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220070f09a1

<400> 5156

gttctagatc gcgagctgcc gccctttttt tttttttttt tttttttttt ttggttttta 60
 cggaaatatg aaattttact tggctaatta aaacgatacc aaaaacaaaa cacaagccaa 120
 gtgaaagtga gaaaaataa aaatcaaaga gcataatgtc agggatcatt cacaagattg 180

gggagaccct ccatgtggga gggcacaaga aggaggagga gcataagggt gagcaccatg 240
 ctggagaata caaaggggag caccatggtg aacacagtag tgagtccaaa ggagagcatc 300
 atggtgaaca caaagctgga gagtaccatg gggagcacia gccagagcac aaagaggtgt 360
 tcctagacaa agtcaaggac aagatccatg 390

<210> 5157
 <211> 261
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070f10a1
 <400> 5157

atttaagctc acaccgtaac acattttttac cataactaaat tctgaaaccc ttttctcaag 60
 ggtgaggtt aggcataac ctacctctt tctctctcc gaccagggcc caacacaaac 120
 gcaccattgg gctcgatctc tgggagaccc aatgtcatgg agggatcccc ttacaactac 180
 atcacgttc gatcgaccca ccatggctct tcccccaatg ctcgtattcg acttcttcgt 240
 catggagccc attctgcct g 261

<210> 5158
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070f11a1
 <400> 5158

aaaaaaatc acagaatttt cgcagtccaa gaagacacgc atcccaaacc gttttgattt 60
 ggaacgtgtc acgctctaaa tttgcatggc atattgtctt taactgagtc aatttcgctt 120
 aataaaacct ctcttcactc ctctgcttta ccaacccaac cccctgttcc tgtgtgtgtg 180
 agtgaccgag tgagtttgtt tttctcagct gatatatatg gcgcttgatc gctccattat 240
 aagcaaaacg acgtggtaca gcgtcgatt atggatgatg gtggtgctgg tgagagtgc 300
 cgggtgcagcc gcgaggccga accggaagga gtgggactca gtcataaagt taccgactga 360
 accggtggat gctgactcgg atgaagtggg aacacgatgg gcggttctc 409

<210> 5159

<211> 577
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070f12a1

<400> 5159

atttggttct gaagtagaag ttacttaatt tgtgcctttt tctactctat tgtattttga 60
atacaaagaa tttagaagct tggaagttct acgtttatct tcatgtatta ggcttgcgaa 120
gagtaaaaaa aagtgagtgt gttctgagat acaatgtagc ggtggttgca ggtcatgcca 180
ttggggcaaa ggctgcaatt cctagaatgt ttccaaatat gtttccactg gttataagtc 240
agagaaagtc acaaacagaa ggctgattgc agtcatgaaa ttgtctcttg acaagtctgc 300
ccaaggagaa agaatttctg acataagcaa gaatggcat attgcttctt acagggttaat 360
gactttgtgt gcttatcaga cattgcttat gttagtgaac aagtgttgat gatggagaaa 420
acaattctta ggaagcttga atagtactta acagttccaa catcctatgt cttacttggt 480
ttggtatata aaaggctcca ctccacctgt taaagagtgt accctaggaa tgagcccttt 540
cgggacaagc acttttgagc actatactgg ttacact 577

<210> 5160
<211> 482
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220070g01a1

<400> 5160

aatcgaatag gtactaacta tttcgtgctg tgagtgagtg tgaggattgt tgaatcgaat 60
cgcgaaactc ttacttacac ccctctctgt ttttctattc acaagggttt tgaaagatgg 120
cggttgaaaa tcccaggat ggattgaaga agctggaata cttgtcgtg gtgtcgaagg 180
tgtgcaccga gttggagtcc cacaccggca cggcgacaa ggttcttgcg gagttcatca 240
ctgagttggg tcgatcatcg gagaatgttg aggaattcga cgagaaattg aaagagaatg 300
gcgcggagat gccggattac tttgtgcgaa cgctcctcac catcatccac gccattctcc 360
ctccgaagcc gatggattcg aagaaggaga aagacagtgt caacggcaag accaccaagt 420
tcaaggctct ggccatcgcg gacgacaggg acccgccaa ggagcttcaa aaggagttag 480

<210> 5161
<211> 516
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070g01d1

<400> 5161

cctagtaatg aaaataaaaa tatgtctaac tttccattta aatcctcata taaggacaaa 60
aactgcattt aaaactaaat gcaacatata acattatcca agacattgca taaagagAAC 120
atagatgaat tacatattat gcacgacgtt tactcaaacg ccatgaattt ggctcatggt 180
atctgtcata aagtggttca attcgcctctt gacgctttcg cttgctcatc tttgtaggat 240
ctgccacttt gaagtatctt ggagccaatt caacaagcca tttgggggtct atgacagtga 300
cctcacgcac atattcctta gttgtcatca caagctcatg gtagatgacc cagtctgggt 360
gtctctggaa cagagctgaa cttggatgga tatacacagg ctggttctca caagggttct 420
gtaaccttcc tgggggtcct ttctagaagc atggaaaaag aaccctgcag tgatagcctt 480
cctgactttg gtgaattttt tcccgcactt acaaca 516

<210> 5162
<211> 605
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220070g02a1

<400> 5162

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ctggtatgat gctagaacac aagaataaat tgcttgagat accaggatca aagctgctct 120
ttgggggtag tcctctagag aaccattcaa ttccacctat ttatgggtgcc attaaaccaa 180
cagctgtcta tgttcctctc gaggaatta tgaaggataa gaattttgat cttgtaacaa 240
aagaaatatt tggacccttt caggttatca cggactacaa aaacagtcaa ctatcagttg 300
tattggatgc tgtggaaaga atgcataacc atttaacggc tgctgtagtt tcaaatgatc 360
ctttgttttt acaggaagtt gttggcaatt cagtaaatgg tactacttat gctgggtctaa 420

gagcaaggac aaccggagct cctcagaatc attggtttgg tcccgtggc gacgctagag 480
gtgcaggaat cggaacaccg ganggctata aactngtatg gtctngccac agagaagtta 540
tatatgattc tggacctgtg ccaaagatgg caaacttctc agtcacttga aaaaagtcct 600
atcat 605

<210> 5163
<211> 435
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070g02d1

<400> 5163

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gttgtgacat tttttacaaa ctcaccatca aaatcgcgct actaataatc caaaaaatgt 120
cctatcaaat aaccgcttct cttggtgttg tgctaaacaa aataactaata ttagtaatat 180
aacactgaat agcctataat atatgctcaa aatatggcca aaagcacaaa aagggccatc 240
ataaacgcac aagtaggttt tatcttaaata gagagattac gtgacagcac atgattatta 300
tactggcttg atcttgcttc aagatccaca gctatggcag gagaaatatc acgtgtattt 360
gatcggttaa tatgttaagt agagagatta tcctcataac acttagattc ctttcaacca 420
aaaatcatgt tctca 435

<210> 5164
<211> 515
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070g03a1

<400> 5164

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ctatttctct gttctgttgt ctcagcaaaa caaataataa aatcctctcg tagctacctt 120
caacaactct tgttcatggc gtgtcaccgt tggctctgta tatcactgtt gctgctgctg 180
ctgctgagtt tagcttcgca gagttgccac gctctccatt cgttcgggtt cgacattcac 240
caccgtttct ccgatcccggt gaaagagatt ctcggcgttc atgatttacc cgacaaggga 300

actcgacaat actatgttgc tatggccac agagaccgaa tattccggg cgggagactc 360
gccgcccgtt accactcgcc tctcactttt atccccctcca acgagactta tcagattgaa 420
gcctttggat tcttgcatth tgccaatgtt tctgttggga ctccaccatt atcgtttctg 480
gtggcattgg atactggcag tgactttgtc tggtta 515

<210> 5165
<211> 456
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220070g03d1
<400> 5165

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aattatgtat tacaaactgc aagttttcct tgctcacaga ttcttcatat taaaaagaaa 120
atthtatccat taacaaatat ttaatgcgtg tttgggtatt cgacgaacca acattggtga 180
aaactgaagt tgcgaaaagc atctccatca ttccttttgc ggtaatatatac ggttgaccat 240
agaatttaaa attgcaattt ttgctaacaa gattaacgga aagtcaaaca tgctttttat 300
ctcattaaaa cttaatcatt ctcatgcaca agaccaatta tcttgagctc agatttaagc 360
ttcaccattt tattcttcgg aaaaaacatg gttagaaact tgccaataac accattctcc 420
atagaacctt tgggcattng gttcaccaaa acaacc 456

<210> 5166
<211> 554
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220070g04a1
<400> 5166

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ctgttaatca ttcaacaaaa gcttctgtgt ccaaaatttc atctccggca tctctgagtt 120
ccttggtctc aaagtctata tcttaciaag aagtggcttt agcaccacca ggaactgttt 180
taaagccatt gttgaaaaag gctgacatgg aaaggggttaa tgctggagat gagatatgct 240

gcaatcctgc tgtgacatca ataagtgaag gtagttgcc aagttccata actaatacag 300
 tttgtcagca tgatgaaaca gaggaactc atgaaaatga acctcaacaa gaaagttctg 360
 gatcggaact tgagaagggtt tctgatcagg caaaatctac agcagaaaca aatggcagta 420
 agctttcagc tgcggccaaa cctttcaatc caggaatggt gtccatgtct caccatttaa 480
 attcagcttc cttcacaagc atgtatgata cagatgtag tcaaggcatg cacgtggaga 540
 ctgtgcttcc ccct 554

<210> 5167
 <211> 552
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220070g04d1

<400> 5167

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 aaacttacta tataatagag aataaacaaa tcccgaatgc acttattata tcgacaaaaa 120
 acaaaatgaa ttgaatgacc aaaaattcta ggccatgaag ttataaacta ttaacaatat 180
 gatgtccaga gcttcggcca gacaaacact cagatgtaga gacaatatcc gttattttatt 240
 tcataactct attcaacgaa ctgaagcaca aatggactgt tggttgtaca attctgtgac 300
 tccatttgtg atcttctgcc tgtttttcct cctcttcgag acaactataa acccttcacc 360
 atctccattc tttttttcag taacacctaa tttctcttgc tcatcactat cactggaatg 420
 aggcaactgtc ttattctttt-cttcatttcc atacataatg tttatgacag cactgtcttt 480
 ggctatttca tcagaacaac tttccaagat ctcaattttt ccttcaccat ccttagactc 540
 atccacagaa tc 552

<210> 5168
 <211> 614
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220070g05a1

<400> 5168

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cgagggtttaa tgcacacatt tttagggtttt tttatgaaac gacactatta tcatgaggac 120
gaaggggata ttttaacttt atgctttcat atgctctatg aaataactga tagttttcat 180
aaagcatggt aacgtagaaa gttacagtaa gcattgtaaa ttaagagatt agtccttagc 240
ttctggctga ggatataccta ggtcgaccta aaaaaataa ctgataaattt tcgggcatgt 300
gcagatatag gaagaactat aaacgtgtca gcatacaagc tataaagaat tgggctcgcc 360
aaatcttaca aggtcttggt tatctacatt gtcatgatcc acctgtgatc catagggacc 420
tcaaagtga taacatattt gtcaatggtc atcttggaca agtaaaaatt ggtgacctga 480
gactggctgc aattcttcac ggttcccaat tagcacatag tggttatagga cctcctttgg 540
ttcaataagt gttgcacact taatttcagt actaagaaac tggttctattt ttattgcca 600
taaaattttc tctt 614

<210> 5169
<211> 468
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070g05d1
<400> 5169

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gagaactgaa agagaagaag aagaaaagaa aaaagaaaag agaattccca taccaccacc 120
aattgttgaa catgcaacct agagagacac ccgggtgtca cgagctttgc tttttcacga 180
aagcaacctg gctacaaaac aaaaccccc aacagggtggc catgtttggc ccgatcaagg 240
gttctaatacc gacgaggagt gtgcgggttc ggtgggtcca gtcccagcct gtgccatttc 300
aagcgatttt cggttctcct cgcagggtgca cgtgctgggtg ttgtcgccga aggaagagga 360
cctgctagtg ctgcaactcg aaacactcgg agttgctaag aatgttggct tctcttgccc 420
ggccatgatc accaagatct tctcctcgta tggtttcgca gggtttctg 468

<210> 5170
<211> 299
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070g06a1

<400> 5170

aagacattga ccgtgtgtgc aggggtctac ctaaaagact acgccagcag aggctaacct 60
ataatggctt agacctgaca gtggcctcat acaagagtaa taggctagag ataataaatc 120
tctcgcttga tccttgcttg agattgatac ttgtgcaaag ctaaacctcg atacaagatt 180
ttgagggtcaa acaggcgata aaaaaaatat ctaagcttgc ctaatctcca aaagtgacaa 240
gacttaaatg aagtgccttat gtgtcttact aggactaatg aatgtagaat cgagttggg 299

<210> 5171

<211> 412

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070g06d1

<400> 5171

cttggggaag gggggccttt ttacaaaaaa aagggttggg ccaacggcct tccctttttt 60
tttttaaaac ccaattttgg ggggaccccc cccaatttta actaaccat agctaaaacc 120
tttaaaaggc cccccgcccc aagttgaaaa aagttgttgc ccattcaatt taaaaatacc 180
cccggaaaaa aaaagttgct gaaatacccc aagggccac caaaaagccc cccatttttg 240
tttttaaaaa cccccccagg ggggggtccg ttccccccc ggattggggc ctccattttt 300
cctttgatga acccctaaaa cggtttttcc cacttataaa cccctttttt ggaacgggat 360
aaactttcgg tggcaatccc cccttattca gggaactgcc cttttcaaag gg 412

<210> 5172

<211> 432

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220070g07a1

<400> 5172

cgctccgcy gagtctcaga gatcaattcc cagcccttt ctcacaaaa cctatcaact 60
cgtcgacgac caatccatcg acgacgttat ttcttgaac gacgacgggt caacgtttat 120
cgtctggaac cctaccgttt tcgccagaga cttgttccct aaatttttca aacacaataa 180
tttctctagc ttcttccgcc aactcaacac ttacggattc aggaaagttg tgctgatcg 240

gtgggagttc tcgaacgatt atttccgccg aggcgagaag cggcttcttt gcgaaattca 300
 gcggcggaag atctcatcgc cggcgccgtc tccgactgcg ccgacgacgg ttacagtggc 360
 cgatgccgtg accgcgatac cgatcatatc gccgtcgaac tcttgcgagg agcaagtgat 420
 atcgtcgaac tc 432

<210> 5173
 <211> 536
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220070g07d1

<400> 5173

gagcaccaag aaacattcat attacaatta ttttatctaa accaaagaca atttttatgg 60
 ggatacacta cagattgaaa ggaaaaaaag atggaacaga tcagatggct aacaaaagtc 120
 cataagtga acaacaaaat gttggccaag aaaataaatt tagtagcaga acataaaaat 180
 aggtgtacat taatcggttt cagagactgg agcaagtttc acgattttat tgctcctgga 240
 ttcgttctgg ttaagaagaa atcagttgca tgatccaaca gggtaggcat caaatcccat 300
 ttctccatcc aacaatgtcg actcattttg ctcccttttg accattacac ccattatgtc 360
 atccaaggtc ccaaaagtat tctgcataaa tccatcttgg gacttcattt gctccaaaat 420
 gtaggcttca tttggcttca gtcgaatgtc tgaagagaat ttctcaactt cagtgcaccg 480
 gctgattgat ggggatgctc catttagttg gccaaccaaa gatgatgcat caactc 536

<210> 5174
 <211> 386
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220070g08a1

<400> 5174

catacgtaat acccaatttt tggagtttta cacagccgat ttgcatagac caaggctcat 60
 ctgggtgccga acaaaggctt tttgggcgag cattcgtctt caccagaaag aggataatgg 120
 tggctcgtga agacatatat ggtggggagg aagtttgtct tggccaacca gaccctgtgg 180
 tgtcgcagat tgcaagggtt caaatccaac ttacagtaaa ggattaggaa ctgcctactt 240

gccagagcgt agaaatggcc ttcctggcat cttatgctca aaaggacagg gccctagact 300
 agctgatgaa tgaagtcgc aaggtgcatg ataaacttag acttaccgtg gatcatttca 360
 acatttgcta gcaatttagg aacctg 386

<210> 5175
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220070g09a1
 <400> 5175

gcgatggaga aggaatcttg tagctttgac gacccttctt cgttcacgct tgggggtgttg 60
 gggccttccg gcctttcacc ttcacagggt tctgtggcat tcagcgacgc ctacgaccgg 120
 atccccact ctgacgtcat cttggtgaac acgatttccg agatatggaa gcagaggagt 180
 cagaagaaca attcgctctt caatgggaag aagttcaggt atggaggggtg tgttttgcatt 240
 gccaaagatg gatccgacca tgaatgtgaa ccgcatttat gcctccatct aggtttgaca 300
 gattacagga cttttgtggg gacaaattta agtcctttgt gggaaagggtt cctggtttca 360
 tcagaagatg attctgttct ttgtaagcac accttccatt cact 404

<210> 5176
 <211> 541
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220070g10a1
 <400> 5176

atccagcact actacgacct gttagttgcc atcaagactt tgatgtttcc acgagcatca 60
 agcccatcaa gctgattcac tgaagattcc gcaacagaga gtagaaaaga tggcgcggtt 120
 gatcacagtg gtgtggtgcg cgggtggcggg gctactgtgc gccgcggcgg gcgcgtcgtg 180
 ggtggaggag gcggcgaacc cgatacgaat ggtggcgggg gtggaggcgg aggtggttcg 240
 ggtgataggg cagtgccggc gcgcgctgaa gtttgctagg ttcattgagca ggttcgggaa 300
 gagttaccga agcgaggaag agatgagggg gaggtacgag atattctcgc aaaacctcag 360

gttcatccgc tcccacaaca ngaaccgctt gccctacact ctctctgtta atcattttgc 420
 tgattggact tgggaggagt tcaaaagaca cagactaggc gctgccc aaa attgctctgc 480
 cactcttaac gggcaccaca agctcactga tgctgttctt cctcccacga aagactggag 540
 g 541

<210> 5177
 <211> 580
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220070g11a1
 <400> 5177

ctcgagccgc tttccttgaa aagcttaaga agaagggggtt cgagggttctc tacatgggtg 60
 atgctattga cgagtatgct gttggtcagc ttaaggaatt tgagggaaag aagttgggtct 120
 ctgctactaa ggaaggcctg aaacttgacg agagcgaaga cgaaaagaaa aagaaggaag 180
 aattgaagga gaaatttgag ggtctctgcc atgtgatcaa ggatgtggtg ggtgacaagg 240
 tggagaaagt tgtggtgtct gatcgtggtg tggattctcc ttgctgtctc gtgactgggtg 300
 aatatgggtg gacagccaac atggaaagga ttatgaaagc acaggcattg agggacagca 360
 gcatggctgg atacatgtcg agcaagaaga ccatggagat taaccctgag aaccccatca 420
 tggatgaact gaggaagcga gctgatgctg acaagaatga caaatctgtg aaggatctcg 480
 ttctcctact ctttgagact gctcttctaa cttctgggtt cagnctgat gatcccaaca 540
 ctttcngtaa cagggattac aggatgctga agcttggact 580

<210> 5178
 <211> 581
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220070g12a1
 <400> 5178

catggaggtc ttcacaagca tctatcatc tttaccgtac aagtgggaat ttctgcccac 60
 ctgatcatgt gactatgttg atggatgatt tggtgagtct ctcgttgcat agctatgaaa 120

ctgtccgcct gcttgctggg aaatctctag tgaagctgat caagagatgg ccatctatga 180
 tttcaaaatg tgttatcact cttacccata acttgcagga taccaatgcc aaggaatatg 240
 cagtgttggg gtccctgttca gtccttgcct cacaaacagt actcaagcat ttgacaacgg 300
 atccaaagtc attctcttca tttatcttgg caattctttc aagttcgcat catgaatcct 360
 tgaaagctca gaaagcaatt aatgagcttt ttgtgaagta caacattcaa ttttctggag 420
 tatctagaag ctttttcagg atctcagaca aagaaaatca tactgggtggg ctgggggttct 480
 cagatttggg ttctcagatt ggctccatga gttttgattc tactggcttg cattggagggt 540
 ataactngat ggctaataga gtgctgctcc tgctggcttt g 581

<210> 5179
 <211> 536
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220070h01a1

<400> 5179
 tgagaaaaga attggcaaca ttccaggtat tgaggttga tatcagttct attctcgtgc 60
 tgaaatggtt gcagttggct ttcatagcca ctggttaaat ggcattgatt atatggggcca 120
 gagctatgcc aaagcgtgca gctatgaact tccagttgct gttgccattg ttatttcggg 180
 catgtatgag gatgatctgg ataatgctga ggatgttgtg tacactgggc aaggtgggcca 240
 taatctgact ggtgataagc gtcaaattcg ggatcaaaag ttggagcgtg gtaacctggc 300
 tctcaagaac tgtgctgagc aatgtgtgcc tgtagagtc attcgtgggc acgaatcttc 360
 aagcagctac actggtaaag tatacacata tgatggcttg tacaggttgt caattattgg 420
 gcagagaagg gaatatctgg atttacagtc tacaagtta gacttangag gctcgaaggg 480
 caacctacat taaccacaaa tcaggtatat ttacttatg gacgtgtacc ttaaac 536

<210> 5180
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220070h02a1
 <400> 5180

cagaaagcaa gctcatccta gagtttttaa aatggcagca gcctcctcca tggctctctc 60
 ttcccatcc ttggtggca aggccgtgaa gctgggcca tcagccccg aagtcgggag 120
 ggtcagcatg aggaagaccg tcaccaagca ggcctcctcc ggaagcccat ggtacggccc 180
 agaccgctc aagtacttgg gccattctc tggcgagccc ccgtcctacc tctactggcg 240
 gttccaggt gactacggct gggacactgc tgggctttcg gccgaccag aaaccttcgc 300
 cagaaaccgt gagctcgaag tgatccactc caggtgggcc atgctcgggg ccttgggctg 360
 cgtcttcccc gaactgttgt cccgcaacgg ggtcaagttt ggagaagctg tgtggttcaa 420
 ggccgggtcc cagatcttca gcgagggtgg gctggactac ttgggc 466

<210> 5181
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220070h02d1

<400> 5181

gatacagaca atagattgta ataaaggctg aaaaaatgaa gggtgaaaaa agaaccagg 60
 aatttctttt agaacaaaaa atagaattgg agcttctatt agtatcaatc acctatggaa 120
 tctggttaac aaatacactt gaatacatgg agaattgtcc catgtttttg agtgcaacct 180
 aagtaccctt cttgcttttt ccttcaaata ggaagcacia tctgcttgca acaccatgca 240
 aagctgggac acagcaccaa ccctcagcat ctcttgacg acctcattgg aggccgtgaa 300
 cttcgaaacc aaggaaaata tatgaagagc tcgatcatca gtggttggtg aaaccctaag 360
 gatcctcttt gaaaccacag caatgcctgc agcatgttgc agaaactgtt ctgtcccatc 420
 agcacaagaa caaagatgag ccaagagaat aatatgagtt c 461

<210> 5182
 <211> 502
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220070h03a1

<400> 5182

gaacaagttg tttgagttta tgcattgagac acatcctgga gttcaggata tggcctgtga 60
cacatttctg aaaatagtcc agaagtgcaa gcgaaaattt gtaatcacc aggttgggga 120
aaacgagcca tttgtgtctg agcttctgac aggccttccc atcactattg cagatcttga 180
accccatcag atacattcct tctatgaatc tggtgggtcac atgattcagg cagagtctga 240
tgcacagaag agagatgaat atcttcagcg gttgatggag ctcccaaadc agaaatggat 300
ggaaattatt gggcaggcac atcaaaatgt tgattttttg aaggatcagg atgtaatccg 360
gacagttctt aatataatgc agacgaatac aagtgttgca acttcttttag ggacatattt 420
cttgcccaaa atctcgttga tcttttttga catgtngaac gtgtacagaa tgtacagtga 480
gcttatttca nagagtatta ca 502

<210> 5183
<211> 382
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070h03d1
<400> 5183

agggcaaggg actgtatttt gtccactaat tcaaagagcc ccaaaaaaaaaa gccccatta 60
gaaataacat aatcctattt ggacaaaaaa tacacccttg atagatcaca tatctcacca 120
gagaaaggaa ttttagaagg atatcctatg atcagctgaa tggaatttta gaagtaaag 180
gtgcccctgc ttgcaacctg caggtcttga acaacttcat caaccgaaat ttgaagtata 240
tccccatcta tatcaacacc cgcctcaaat gcttaaagtg caaagtgagt ccatttcccc 300
aaggagtggg tcatttccca ttctattatt ttatgaggca ccatcccaac catagataac 360
cacttggtga tctccctctt ca 382

<210> 5184
<211> 554
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070h04a1
<400> 5184

tccagtgaag gaaaggcagc gatggaagaa gacttcgaca tccccggcgg cgaggaaatg 60

gatctcggcg aagacgaggt cggcgaggag agggagatcg gctctggcgg cctcaagaag 120
aagctcctca aggaaggtca aggctgggaa acccccgaag tcggtgacga agtccaagtt 180
cattacacgg ggactttgct cgacgggact aagttcgatt cgagccgca cagggattct 240
cccttcagct tcacgctcgg acaagggcaa gtaattaaag gatgggatga aggtattaaa 300
accatgaaga aaggtgaaaa tgctattttc accatccctc ccgagctagc ttatggtgaa 360
tctggttccc ctctactat tcctcctaata gctacactcc aatttgatgt tgagctgctg 420
tcatggacta gtgtaaagga catatgcaag gatggcggtat tattaagaa gataattact 480
gagggggaga aatgggagaa accctaggat cctgatgaag tattgggttaa gtatgaagtt 540
catctagaaa atgg 554

<210> 5185
<211> 387
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070h04d1
<400> 5185

ggacccaaac aattccattt tttatagtac ctctcaaaca aatcattata gttcatgggg 60
atatataatt aagtcaattt tgtaaatatt ccataataaa taccaaatga atgtccatca 120
aattttccta gggcccaaac catacaggga agatcaaccc ccaaaaaaac ggggactaaa 180
cagattcggg tcccatattg gatgacatct aaatttagtt ggcaaccccg gattcaatac 240
cggggggtact tcgaagctgg tttattgcta tcaggaacca atctttggca tcttggggat 300
catatttcca taaaatggcg cctccttttt attattcttt ttcacctttt ccttaaaagt 360
cctgtactcc aatttgacat ccctggtt 387

<210> 5186
<211> 449
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070h05a1
<400> 5186

tgggttttca ccgatcaagc attgcctaata gatcttgtca agagaggagt tgctgttaag 60

gatccatctg ctccccatgg agttcgactt ttgatcgagg actatcctta tgcttctgat 120
 gggctagaga tatgggatgc tatcaagtct tgggtggaag aatatgtctc attctactac 180
 aagtcagatg aggaacttca aaaagacccc gagtccaag cttggtggaa agaacttgta 240
 gaggtgggtc atgggggattt gaaggataag ccatggtggc aaaagatgca aactcgtgaa 300
 gagttgggtg aagcttccgc taccctcata tggattgctt cagctcttca tgctgctgtt 360
 aactttggac agtatccata tggaggttta atcctgaata ggccaactat tagcaggaga 420
 ttcatgcctg agaaagggtc tcctgaata 449

<210> 5187
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220070h05d1
 <400> 5187

aatccttaga aaacatgtat caatattttc cactctaca aaatttgaca aaaaacaaaa 60
 caaaggaaag gagagaagtt ccacgcataa gcatcaatca aatgatcaaa gctaaacatg 120
 taaaagatca gaaacaatca ataaaaagaa gctaccaaac taccatcaag caagtccagc 180
 ttccagtcca ccaaattgtat catagagagg ttggtttaga gtctcgggaa gattaaacgc 240
 aaacatccct cccactatcc cacatgctgc aaacaccgca aacggcaaatt accctcccaa 300
 aacgaccaca aacggcgcca atatcgctcc catttgcgcc gcttgagtag tacacccgag 360
 cgcggcgttc ctcaccactg tcggaaacag ctccgcctg taaataaaca gcaaattata 420
 agtccccgcc atcccaaata ttccaaaac accacacacc a 461

<210> 5188
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220070h06a1
 <400> 5188

atggtataaa tacgcataca ccatgttttt tatctagga cagcttaaa ggagttacca 60
 cggactgtta taatttggtc actactacta gcggctgcac atattgtgat attacatgaa 120

gaaagtacat acttagccat ctacctttga ggtgtgacat cagatctatg gcttgtgcct 180
aagacacttt atgcagaggt acttggttaag atggtcgctc cttccaatag agttgcacct 240
gttataacac ccaacgagct acctgaaagc tgatggctta ttgctcgtgt tccccaaaga 300
aactagactg aggggttggc aatacaaaac tttgatagat gcatctgtat gtctgtggcg 360
cacacaggca ctagctggta ag 382

<210> 5189
<211> 477
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220070h06d1
<400> 5189

gctatcacia aacgaagaaa ctattattgg aattcattca aattgaagtg cacatgatta 60
ataagattca accaaactag agaaggccac cacggagcct aaggacaaca tagacataga 120
aattttgtta tatcatcac attcaaggaa gagaaaatct caatagcaag attcaactga 180
aactagaaat cgccaccacg gagcctaaga acaaggggaa gcggggattc cttctgaata 240
ttgtaatcgg cgagagtgcg tccgtcttcg agctgcttcc cagcgaagat aagacgctgc 300
tgatccggag gaatcccttc cttatctga atcttcgcct tcacgttatc gatcgtatca 360
gaactctcca cctccagagt aatagttttc ccggtgagcg tcttcacgaa gatctgcac 420
cctccgcgga gtcgaagcac cagatgaagc gtcgattctt tctgaatatt gtaatcg 477

<210> 5190
<211> 485
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220070h07a1
<400> 5190

ggaaaacata agtgtgactt tggctgtagc aaatgcgtgg taccaaaaag atgcaattaa 60
actattgaat tggaagctga gttagtagta atttgagaga gagagagaga ctcatccact 120
tcttccattt ccacgccttc ttcattcaca caacacaaca taacacaaaa agctctccct 180
agtatctaga gacagaattt ccaacacact cgcttctcag agcgcggtgcc cttcaaakat 240

gatcatcatc cactttcttc taggacctgt ctcagattct tcatagagga gtactgctgc 300
 tgatcactgg atctttcaaa tttggaatgg tttgatggga aacatgagtt gcagcttcaa 360
 ccagactgat tcagttgagt gctgtgaagc tgaaattcag aaggctgatt ctcaggaatc 420
 tggtcctccc ttgaagaagt canaaactga aattctggcc tctcaaagt agataactgt 480
 gaaat 485

<210> 5191
 <211> 584
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220070h07d1

<400> 5191

gacacgaaat ccactgtaat atagatctga ctaattgtcc atgttgtctg taatgaataa 60
 cagaaacaca aaacctagtc attctaaaca ctgaaatgac taacaatagc ataattatca 120
 ccaaggcgta caaacgcatg accaaattaa atgtcaatac aggaaatgct aatgcaaatt 180
 atttggcagc ctcaaataca tccccgtgga tagtataacg ttcccatttc ttcgttggtat 240
 catatatctc ccatcttgaa gcaggaaata tatgcttggt cttttcatac caatgccttt 300
 ctacaacctt cccagcatga gactcatcct tctctatagt ggcatcagca attgttcgta 360
 catcctcatg cacatcaaaa tgaaaaagcg gtccactttt gcctctagct ttgttcacaa 420
 ttagctcata gaagctatgt tgctgtaata cacatggaaa caggtaaata agttagcaga 480
 tatectttgg ttaaaataat gttaacatag cttatacaca caaaaacaag atagcgagtt 540
 gcacacagag tttctgaaat taaaagctaa tacatgagga atga 584

<210> 5192
 <211> 66
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220070h08a1

<400> 5192

tttacaaata catgaatttg taccctaaaa gacatgcaat atcaaattgg ttccccact 60
 tcccct 66

<210> 5193
<211> 539
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070h10a1

<400> 5193

gatcttcttg acatcgactc cattgttgct gccataaagg gttgttccgg cgtaatccac 60
cgtgcatggt ctaacatcat tgggtcaagtc gaagatcccg agaaacagat attggaaccg 120
gcgataaaag gaacggttaa tgtgttgaag gcgaccatgg ctgaacgaca ggctagtggg 180
gctgcgtact aatacaacgg aggatcatgt gctgcaattg ctggagcaga tgactggatt 240
atcggcgaag agtctaggat ggccaccgga tacagtatgc tctctcgca gtactacaaa 300
atctcccaac tggcggagaa gtgtgttggt tgggactttg cgaaggagac aggttgtgat 360
gttgatgat agaccctggc acagcgttgg gccctttgct tcctccaaga atcaattcaa 420
gcatggctgt gcttgatagt gttctcaaag ggggcaaaga gacctacgag gacttctttt 480
tgggaacggg ctacttcaaa gacataacat tggcacatat tttgggactt gagaacatt 539

<210> 5194
<211> 476
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070h11a1

<400> 5194

accatgtcca ctctttccac tcagaacgtc accgtcacc caaaaacgca gcaacctttg 60
cagattgcaa agcgcttaga gaaatttcag acaacaatct tctactcaaat gagcttgctt 120
gccatcaaac atggggccat aaaccttggc caaggctttc ccaactttga tgggtccagaa 180
tttgtaaagg aagcagcgat tcaggcaatc agggatggga aaaatcagta tgcccggggg 240
tatggagttc cagacctgaa cattgccatt gctgagagat ttaagaaaga tactggactt 300
gtggtagacc ctgaaaagga aattactgtc acatctggat gcacagaagc aattgtgca 360
actatgatag gattaataaa tcctgggtgat gaggttatta tgtttgctcc tttttatgat 420
tcttatgagg ccactttgtc catggctggg gcaaaagtaa aaggcatcac tttgcg 476

<210> 5195
<211> 528
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220070h12a1

<400> 5195

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ctgatcatgt gactatgttg atggatgatt tggtgagtct ctggttgcac agctatgaaa 120
ctgtccgcct gcttgctggg aaatctctag tgaagctgat caagagatgg ccatctatga 180
tttcaaaatg tggtatcact cttaccata acttgcagga taccaatgcc aaggaatatg 240
cagtgttggg gtcctgttca gtccttgcc cacaacagc actcaagcat ttgacaacgg 300
atccaaagtc attctcttca tttatcttgg caattcttcc aagttcgcat catgaatcct 360
tgaaagctca gaaagcaatt aatgagcttt ttgtgaagta caacattcaa ttttctggag 420
tatctagaag cctcttcagg atctcagaca aagaaaatca tactggtggg ctggggctct 480
cagatttggc ttctcagact ggctccatga gttctgattc tactggct 528

<210> 5196
<211> 590
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220071a01a1

<400> 5196

agatgtagtt ccagattcag agaatcagc ttaannnnnt tnntcnctnt nnnnnctnnt 60
ntntntnnnt ttttttntt tttttttttt tttttttttt ttntnttttt tntgnntttt 120
actagctccc ctgggggctc actgggtccg ttcattgtaa tatttgcttt atggtacaga 180
accatggctt tggccaagtt gccaccaaac gttcatcag ttccagcagt tttagcgttt 240
ggagattcca tcgtggaccc aggcaacaac aacaacataa aaacattgat caagtgaac 300
ttccacctt atggaaagga ttttcaggga ggaaaccaa cgggtcgatt ttgcaatgga 360
aaaattcctt ctgacttaat agttgaacaa ttgggtatta aggagtattt gcctgcatat 420

ttggatccga atctcaaadc tagtgatctt gttaccggcg tctgctttgc ctccggtgct 480
tcaggatagc atcctttgac acccaaaaata acgtcagttc tatcggtatc tactcaacta 540
gacatgttca gggaatacat aagaaagctg aaaggcattg ctggagagag 590

<210> 5197
<211> 562
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071a01d1

<400> 5197

ccaaccagta aaatcatcaa aaatcatatt taaacacctg aatacaacaa catacatcca 60
ctttaaaggt aaatatttca cacgggaaaa atgtggaacg tctgtgagat ggatcgatgc 120
ctgtgaacat tgaaatctac aaaaagtacc gaacaatcac accaaaactc gacaaatcaa 180
aatactcatt gtcttcgttg acatcaacat aactaataat tgatattact tcccgtaggc 240
aaacttaatc gagctcaaaa caatcgatct atgtactttt caagaacata atttacgagc 300
tttctgtaaa ctcccttctgt tggatgataa ctatcccaa agacatattc cgaagcattg 360
gaacaagtgg catccaaagg gttgcataac actgcaacct ctagtttgcc tgtgccacag 420
caacctctgt ccataacttt atagccatat ttttggtagt tttcaatgat atcgagcaga 480
ggggtgtaaa catcaatgta aactatcctg gtatcggaca agttgtgacc gagggaatca 540
agttcctttg aagtttgga tt 562

<210> 5198
<211> 695
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220071a02a1

<400> 5198

gctgaacatg cgctcngcag accaatgaaa aattaaacca aaaaacaaaa aaaaanaaaa 60
aaaaaaaaa aaaaaaaaaa aatttaaaaa attaaaaaaa aaaaaaaaaa aaaaagggga 120
naaggggaaa aaaaaaagaa gaaaggaatg acataaacia ggatctgaaa actgatccaa 180
aagatgaata tctgcaatta ttgagggcag ccattaagtg cttgacttac cctgagaaat 240

attttgcaaa agtcttgagg ctggctataa acaagctagg aactgatgaa ggggccctta 300
 ctagagtggg gacaaccaga gctgagggtg atttgcagcg aattgctgag gaataccaaa 360
 gaagaaacag cattcctctg gaccgcgcaa tagccagtga cacttctgga gactatcaga 420
 gcattctcct tgcactgggt ggacatgagg attaagtttt ctttcttaat ctgttcagtt 480
 gtcatgggat tgcttgctag gctatttgct tttcctctta tcatgaatgt gatattgcta 540
 tggatctctg gacagaggaa ttcagtggct tgctgttaac gcttgctatg aggggtataa 600
 attatcatgc ctgttcagaa taatatgttt tgatgtccaa aattcagcat agcactcaca 660
 tcttattaag atcaatattg tttagataat aaata 695

<210> 5199
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071a02d1
 <400> 5199

aacagtagta aaagacgcag caaatatattt attattctaa aacatataat tgatccttaa 60
 taaagatgtg aagtgctatg tcttgaattt tcgacattca aaacatatta ttctgaaaca 120
 gcatgataat ttatacccct cataagcagc gttaacagca agccactgaa ttctctgtgc 180
 cagagatcca tagcaatatc acattcatga taagaggaaa agcaaatagc ctaacaagca 240
 atcccatgac aactgaacag attaagaaag aaaacttaat cctcatgtcc aaccagtgca 300
 aggagaatgc tctgatagtc tccagaagtg tcaactggcta ttgcgcgggc cagaggaatg 360
 ctgtttcttc tttggtattc ctcagcaatt cgctgcaaata caacctcagc tctgggttgc 420
 accactctag taagggccccc ttcatcagtt cctag 455

<210> 5200
 <211> 557
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071a03a1
 <400> 5200

tttgattttg gattgttttc tgctcgattt cgtttaagga gataagtggg gttgggagtt 60

tttgctatta tttattgtta ttttttttgg tgttttagag aattgagttg atggggggta 120
 acaattctaa ggaggataat aacaattgga ggcagaattc atctgtgct tcaagttcct 180
 ctgctgtcttc ttgggggttca tctcctgacc cccaatcagg ttatgggtcac ggggggttacg 240
 cgtatgagcc acaacagcct tcttatacta cacagcagcc gtattatgcc caaccgccgc 300
 cgccgccgcc aaactatggc aatgaacctc agcctcatgc tagcggcaga gtggccggcc 360
 acagaaatga gaagcgggta gacaggaaat actcgagaat cacagattac tacaactcca 420
 tagatgaggt gactgaggct cttgcacgtg caggccttga gtcttcaaat cttattcttg 480
 gtattgattt cactaagagc aatgagtggg caggaaagca ttcatttaac agaaaaagtt 540
 tgcatacat tggaat 557

<210> 5201
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071a03d1
 <400> 5201

aacaaaccaa acaaattctt gttcacattt gttcgggtgg ggtttgaaga atttttttac 60
 aagtccaaac caaataaaac caaataattt aattggtttg gatatttttt tgttgtacca 120
 ttttttcatc aatagacaca gctgatctaa cgtttgtata caaccagaga aggttaaaaa 180
 aatcaaagaa ttttagctta cacaacaaaa taattaattc acaacggaag aggccgccta 240
 gtaaagctta attctggtgt taatggggct tctacagatg ggacacgact gaagatcttg 300
 tccacattca caacatgtct gatgtccaca tccgaaggcc atgtcttttg aattggtcag 360
 acatatgggg caaagctgat tgtcatatga ggaacttggg gcaagaggag c 411

<210> 5202
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071a04a1
 <400> 5202

ttctgattcg tcaaacggac aaaggaagtg aaagggttta ggggtgtgacc tgagatcaac 60

atgttgcgga ggcttctctc ttctcacctc aaaaccctag ccgccaccgc ttcttcttcc 120
 actccccgat ctgcttccgc cgccgccaga ttcgccgctc tctctcgctc ctcccgctac 180
 ttctcaaccc agtccgagga tgctactgcc atcaaaaaga aggttgagga tgtaatgcca 240
 atcgctactg gtcacgagcg cgaggagctt caggctgagc tgcagggaag gaatattctt 300
 gaaatagacc atcccgaag tccattcggc acgaaggaag cacctgctgt tgtcaaactt 360
 tactatgata aaaggatagt cggatgccca ggaggatgaag gtgaagatga gcatgatgtt 420
 gtctgggttt ggctggagaa agacaagccc cacgaat 457

<210> 5203
 <211> 542
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071a04d1

<400> 5203

aaaaaatcgt caagttctat caattatttc acaatgcaca aaacattgtc taacagaatt 60
 ggtagctcaa gcaaatgagc atcctgcgtt caaataatcg cataaacttt ctagctcaaa 120
 agttgcaaca caacaaggta tagacaaatc aaaatcaaac ataggccaca ggattttgaa 180
 aggccagagt gtattctaaa caatgtctct ccatctttcc agaatttatt ccagatttaa 240
 ttgaaggatt gcaatcaatg gtgatcatca tcgccatgcc catcggtgga tccaccaggt 300
 cctaccactt caagaacaaa atactgtgcg cactctggac attcgtgggg cttgtctttc 360
 tccagccaaa accagacaac atcatgctca tcctcacctt cacctcctgg gcatccgact 420
 atccttttat catagtaaga tttgacaaca gcaggtgctt ccttcgtgcc gaatggacct 480
 tcgggatggt ctatttcaag atattccttc cctcgagctc agcctgaagc tcctcgcgct 540
 cg 542

<210> 5204
 <211> 450
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071a05a1

<400> 5204

tggtaattca tgtaataaaa ttcaatttca gttactaaga tgaaactaat tggaaaactc 60
 agaactacac cgaaagtatt taaaaaagtg aatctaattg tcagcgtcta agatttgatg 120
 gccttgtttc tgggggtgtct tagaagggtga tgtaactgtg cagggaaaaa cagtatctct 180
 ataatcgtgc caattgttgt cccaattgtc gttgtgattg tacttttcat tgttggagtc 240
 tgcttcttac gtaagagggc aagcaagaag tataacactt ttgtccagga ttcaattgtg 300
 gatgatctta ccgatgtgga gtccttgcaa tttgatttgg ctacaattga agctgccacg 360
 aatggattct cggatgagaa caagattggc caagggtgat ttggtgtggt ttataagggt 420
 atcctcctta acagacagga gatagctgtg 450

<210> 5205
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220071a05d1
 <400> 5205

aatctggtct ctccccggggc atcatgtttt agctactgta tgtgttcac caagaagtat 60
 ttgacagaat tcttttaact attaataattt acaatatata tgcactagga ttgtataaca 120
 gcaacaccat ggtttgacac atttaaacad atcctggatt ggtcaaagaa aacatgaaaa 180
 caatccttta gcgagggtat atgtctgtaa tggatacttc attcacagac catggaattg 240
 aacaagtgtt agactgatca gagtcaagcc cttggtttag cctgttagga tttcttccgc 300
 gcagaaaaga tgctggttgt cgtggcattg acaaggtaac tgaataactg ttcagcataa 360
 gtgcaatggt ggccatcgaa ggtctgtcag atggattttc ctgaacacat aataaaccaa 420
 tatggatgca tctgtttact tcatttcttg aataagaacc ttcagagtt ggat 474

<210> 5206
 <211> 539
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220071a06a1
 <400> 5206

agaacagggg ctcattctct tttcagcggc actctcgggt gctttcatgt tctcgggggtg 60

agttgtcaag atgtacacat cgaggaagaa aattcacaag gataaggatg ctgagccaac 120
 tgaatttgag gaatcagttg gacaggcatt gcttgatcta gaaaatacca acaatgagct 180
 gaaaagtgat ctgaaagatt tatacataaa ctgagctgtc caaattgatg tttctggcaa 240
 ccgaaaggct gtgggttatcc atgtccccta cagactaagg aaaggattcc ggaagattca 300
 tgtcaggctt gtgagagaac ttgagaaaaa gtttagtgga aaagatgtaa tcttgattgc 360
 caccaggagg atagtaaggc caccaaagaa aggttctgct gttcagcgcc cccgcaccag 420
 aacactcact gctgtacatg aggcaatgct ggaagatatt gtattgctg ctgagattgt 480
 tggaaagcgt gttaggtata aaattgatgg ctccaagatt atgaaggtct ttttggacc 539

<210> 5207
 <211> 562
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071a06d1
 <400> 5207

aaaaatacgg attcatagga tggtaaaatc ttaaaaatac ggattcatag gatgttacia 60
 gaaaatatat caaattctac attgataaac caggacacag tattttctat aagtaactaa 120
 agaaaatcca gaattaaagc caacttaaca aaaccagcat ccaccatag taattcagga 180
 agaaattcaa agctaacaaa tagaacctaa gcctcggtag taggatactc aaacacgaca 240
 cctttgctg aaagtttctt gtatactgca gcaaaagtct ccaacttgta ctcggtattg 300
 tttcgctcct tgggggtcaa aaagaccttc ataatcttgg aaccatcaat tttataccta 360
 acacgctttc caacaatctc agcaggcaat acaatatctt ccagcattgc ctcatgtaca 420
 gcagtgagtg ttctggtgcg ggggcgctga acagcagaac ctttctttgg tggccttact 480
 atcctcctgg tggcaatcaa gattacatct ttactactaa actttttctc aagttctctc 540
 acaagcctga catgaatctt tc 562

<210> 5208
 <211> 637
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071a07a1

<400> 5208

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agctactttg gatggcaatt gtgtgcttgg tgctgggtgt aatttccatt actcccaagg 120
cccaagcagc agtgacatgc aaccaggtgg tgagcaacct caccatgc atttcttatg 180
tgctcaatgg tggcaaaacc gtgcttggcc cttgctgcaa tgggatcaag accctcttta 240
acctcgctca ctccacacca gaccgcaaaa ccgtttgcaa gtgcataaag aacgctgtta 300
gtgcgttcca ttatggcaag tccaatgtgg accgtgctgc tgctcttctt aagcagtgtg 360
gggttaacat tccttaccag atcagccctt ccaccgactg taccagagtg cagtgaaggtt 420
aatgatatat ggagcggtaa ctcgagaaga gaaggatata caatatatag ctagtgtgtg 480
aataagtggc tggctatacg taggcacac attacattaa tgactggtgg ctgcctatta 540
ttacatccat caactagtct tgttattgag tcattggaat ttttttattt gaagattcaa 600
aattatatta agaattataa aattatgttt ttattca 637

<210> 5209

<211> 448

<212> DNA

<213> Glycine max ,

<223> Clone ID: jC-gmfl02220071a07d1

<400> 5209

cttgataac cgcttattta gcattttaat ccttcccttc caattcataa caagctgaca 60
aaagaaacac caacaggcaa catgtatgga tacatgactt aaaagggtgt ttaatggaat 120
tggttgaata aaatacataa attattataa atctttaata ttatttttga ttcttacaaa 180
taaaaaaat acaataactc aataacaaga ctagttagtg gatgtaataa taagcagcca 240
ccagtcatta atgtaatgtg tggcctacgt atagccagcc acttattcac aactagcta 300
tatattgtat atccttctct tctcgagtta ccgctccata tatcattaac ctcaactgac 360
tctggtacag tcggtggaag ggctgatctg gtaaggaatg gtaacccac actgcttagg 420
aagagcagca gcacggtcca cattggac 448

<210> 5210

<211> 630

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071a08a1

<400> 5210

gggttacttc agcttccaca tatcttgaag aattgatcaa tgggcaagtc tgtagttgag 60
aagctacttt ggatggcaat tgtgtgcttg gtgctgggtg taatttccat tactcccaag 120
gccaagcag cagtgcacatg caaccagggtg gtgagcaacc tcaccccatg catttcttat 180
gtgctcaatg gtggcaaaac cgtgcctggc ccttgctgca atgggatcaa gaccctcttt 240
aacctcgctc actccacacc agaccgcaa accgtttgca agtgcataaa gaacgctggt 300
agtgcgttcc attatggcaa gtccaatgtg gaccgtgctg ctgctcttcc taagcagtgt 360
ggggttaaca ttccttacca gatcagccct tccaccgact gtaccagagt gcagtgaggt 420
taatgatata tggagcggta actcgagaag agaaggatat acaatatata gctagtgtgt 480
gaataagtgg ctggctatac gtacgccaca cattacaatt atgactggcg gctgcttatt 540
attacattca atcaactagt ctggtattga gttattgatt ttttttattg gaagaatcac 600
aataatttaa agattatata attatgattt 630

<210> 5211
<211> 422
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071a08d1

<400> 5211

cttgataaac cgcttattta gcattttaat ctttcccttc caattcataa caagctgaca 60
aaagaaacac caacaggcaa catgtatgga tacatgactt aaaaggggtg ttaatggaat 120
tggttgaata aaatacataa attattataa atctttaata ttatttttga ttcttacaaa 180
taaaaaaat acaataactc attaacaaga ctagttgatg gatgtaataa taagcagcca 240
ccagtcatta atgtaatgtg tggcctacgt atagccagcc acttattcac aactagcta 300
tatattgtat atccttctct tctcgagtta ccgtccata tatcattaac ctactgcac 360
tcttgtagag tcggtggaag ggctgatctg ttaaggaatg ttaacccac actgcttatg 420
aa 422

<210> 5212
 <211> 323
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220071a09d1

<400> 5212

tttttctctt gttatgatga caactttgca gaatctttat tgatgtctca attcatatag 60
 cgctatgcac tgggattacc accttcaatg tatacaatcc tggaccctaa acataaacta 120
 atattttattc catatggagc gtagcggttct aacaagggtt gttgcatgta acatacatca 180
 tccctaaata gtctacacac tcctaaaccc tgactttcaa atctcctaca actgactgca 240
 attctttata atcttgcaat acactatctt catttcagcc tcacaaaatg tactcatgtg 300
 ccaacaatta atactggtct ttg 323

<210> 5213
 <211> 556
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220071a10a1

<400> 5213

cccacacaca gaacaagaac aactacagga agaaggagaa agaaaaaaaa aaattccgtg 60
 attgcatttt cagaggagag gataacaatt gaggtgtggt gaagaatttg ttggagtggag 120
 ggggggtccca cctacccttc acattcatta tcttcttcat cagagtctct ttttaatcct 180
 cttctctatt ctgcaccatc ccaagtattg tcctttgcct tggttccatt gtttttgtga 240
 atcttgaggg tcttgtgtgg gcctcttgct gcttaagttc caactagcta gatctacttt 300
 attctagcta cacaccaatt atatatacat aagatttgga gattctgcac accaattata 360
 tacatcagaa tctcttatta tatagactca tcttccatct ttttttttct tccatttttc 420
 aattccattt ctaggtgcta taaaacctgt tatcagatct tgggtgcccc acttccattt 480
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 ttcatttgat gacagc 556

<210> 5214
<211> 437
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071a10d1

<400> 5214

gagaaatca gagattttta tcattctata tattgtggaa tgaatattct acgccatcag 60
tgcataaatg agtaatttac atttattgaa atcacaagct aaacttaacc atgaaaaaaa 120
atgggataaa taaaacgggg aaagtaaata ggtagcctca aacgctcatt tggttgaatg 180
agaatcctat accctttttt ctccaatgca gaagaacctg cctctgcca tgcttaataa 240
gaatactagt cttgacataa tgctaagtgg aaaattagat ctgattagtc caagacttca 300
gaaggccaaa tgcttttcca aatggaaatc tcagtctcac tcttaatctt tctgattcct 360
ccataaaaac catctgcttc atttccttcc tctctatgat ctcttctact tatagttggt 420
ttcccccaac gcgagtc 437

<210> 5215
<211> 539
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071a11a1

<400> 5215

tttctctctc aaaaccctaa ccctaaccac aatccccaga gtctggaagc ctctccaatg 60
gcgtaccaga ccccgatca agattcaggt tccgatccga agacccaac gcgcctctac 120
aaccctaca aggatctcga agtccccatt cgcaacctct accagctccc aacctccccg 180
gagtacctct tcgtcgagga ggcccgccgc aagcgccgat cctggggcga gaacctcacc 240
ttctacaccg gctgcggtta cctctccggc gctgtcggtg gcgcgcctc cggcctcgtc 300
ggcggcggtta aatccttcga gtccggcgac accgccaagc tccgctcaa ccgcgtcctc 360
aactcctccg gccacgccgg ccgcgcctgg ggcaaccgcc tcggcgctcat cggcctcctt 420
tacgccggca tcgagagcgg gatcgaggca acgagggaca ccgacgacgt ctggaacagc 480
gtcgcggcgg gaattcgcac cggcgcgctg tategtgcag cgagaggggt gcgttcggc 539

<210> 5216
<211> 446
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071a11d1

<400> 5216

ccagcattaa agccgtccca attattcatg caagatgttt cgacaaatta cattaaaaag 60
gttagtcatt atcaagctga aaaaaaaatg cataataata aaaccaattg tttgcaacag 120
caacgctgcc acatgctggt ataataatgc ttatacctaa caatcgctca aaattgatag 180
taacccccca aaaaaaggaa gaaaaaaatt aagcgctcac acaaagtttt gttctcatca 240
tataggcacg tagcggttca aagcctgctt cgccgtgaca gcgactccaa ccacgacgcc 300
gccgacggcg cccgttaccg cgcgcgaacg caccctttg gctgcacgat acagcgcgcc 360
ggtgccgagt cccgccgcga cgctgttcca aacgctcgctg gtgtccctcg ttgccttgat 420
cccgttctcg atgccggcgt aaagga 446

<210> 5217
<211> 607
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071a12a1

<400> 5217

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ccatcttcac cgatcatatt ctctctcttg caatattatt cactctcaca cccacaagg 120
ccaacgggtgc cacgtgtcac cctgaggaag aagcgggcct gttgggcttc aaatccggta 180
tccgatccga cccgtccggc ctgctcagta actggatata gggtagggac tgctgcacat 240
ggaccggagt agaatgccac tataacagca cccgggtcca aagattattc ttaacgggtc 300
aaaaacccga aaccatctta tcgggtacca tctcaccac cctctcaaaa ctcaaactcc 360
tcgatggact ctacctcata aacctcatca acatttcggg tcccttccca aattttcttt 420
tccaacttcc aaatctccaa tttatctatc tagaaaacaa caatctctcg ggtcgaatac 480
ccgataacat cggtaacctt acccgattag atgtactcag tttaactggt aaccgggtca 540

tcggaccCGT accgagttca ataaccaagt ngactcagct cactcagctc aaactcggta 600
acaattt 607

<210> 5218
<211> 490
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071a12d1

<400> 5218

aaagtaaata tatatagtat atattgaaag ttaaaattac aatttactta ttaaattaca 60
taattattgg aaaacttagc agtaaaagga aattaaacac ttgaaatcat caacaacaaa 120
gcttactaca cttatgcttt gttgcagggt ggcaaaggag aaccacagag acaatcattt 180
ccaacaaaag cacttgccg aaacttattc ttgggaagct gaccacaaag atggttatag 240
ctaacattca acttctcaag cccaacaaca ctgtttggaa ccttcccaa caccaatta 300
cgagacaaat ccaaaaactt aaacctctcc ccaaactta acttcccaa atcaaacttc 360
aacttgttcc ccgaagcca aaacccacc aaatactcag tactattcac caaccaatt 420
gcactccctg aaatttcatt ccccgaaaga tcaataaaat catagaaata agtctccgaa 480
ggcttaaaat 490

<210> 5219
<211> 612
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220071b01a1

<400> 5219

gccataatca tgcattgggac aggactcagt attccagatg ctatgactgt cgcctgann 60
nnentcnnnt nnnnntngnc tcnctcgctc nncnncccc ctcttctttt tctcttcttt 120
ttcttcttct cttttccctt ccttctcggg ccccgaggcc ctctcttcaa tgattccgta 180
caatgccata acacaaggat ctgaaaactg atccaaaaga tgaatatctg caattattga 240
gggcagccat taagtgttg acttaccctg agaaatattt tgcaaaagtc ttgaggctgg 300

ctataaaca gctaggaact gatgaagggg cccttactag agtggtgaca accagagctg 360
 aggttgattt gcagcgaatt gctgaggaat accaaagaag aaacagcatt cctctggacc 420
 gcgcaatagc cagtgcact tctggagact atcagagcat tctccttgca ctgggttgac 480
 atgaggatta agttctcttt cttaatctgt tcagttgtca tgggattgct tgttaagcta 540
 tttgcttttc ctcttatcat gaatgtgata ttgctatgga tctctggaca gaggaattca 600
 atggcttgct gt 612

<210> 5220
 <211> 558
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071b01d1

<400> 5220

aacagtagta aaagacgcag cttatatttt attattctaa aacatataat tgatccttaa 60
 taaagatgtg aagtgctatg tcttgaattt tcgacattca aaacatatta ttctgaaaca 120
 gcatgataat ttatacccct cataagcagc gttaacagca agccactgaa ttcctctgtc 180
 cagagatcca tagcaatatc acattcatga taagaggaaa agcaaatagc ctaacaagca 240
 atcccatgac aactgaacag attaagaaag aaaacttaat cctcatgtcc aaccagtgc 300
 aggagaatgc tctgatagtc tccagaagtg tctactggcta ttgcgcggtc cagaggaatg 360
 ctgtttcttc tttggtattc ctcagcaatt cgctgcaaat caacctcagc tctggttgtc 420
 accactctag taagggccccc ttcatcagtt cctagcttgt ttatagccag cctcaagact 480
 tttgcaaaat attttccagg gtaagtcaag cacttaatgg ctgccctcat atatgcagat 540
 attcatcttt tgatcagt 558

<210> 5221
 <211> 651
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220071b02a1

<400> 5221

gctctatcgc tgcgatagac tccanaccgt tnnnnnttnn nncnnnnnnn cnnnnnttn 60

nnntnnnnnt nnnnnnntn nnnccgnntt tcnaaacttg gcaagagtgg tggcactcca 120
 acagaaccaa ctatctttct ctaccttagc ttcctctctt tctgacttca gtggaaccag 180
 acttcaaact caacttcagt tcaagagaaa gcaatgccat ccaaaagggg ctttctacgt 240
 ctccgcatcg agcaccaaga aaatcctaata aatgggaggc accagggttta ttggtgtggt 300
 tttgtctagg ctccctgtca aagaggggtca ccagggtgact ttattcaca gaggtaaagc 360
 gcctgtcact caacagttgc cagggtgaatc agacagtgat tatgctgatt tttcttccaa 420
 gatcttgcatt ttgaaaggag acaggaagga cttcgacttt gtaaaatcca gtctctcagc 480
 agagggattt gatgttgatt atgacatata tggacgcgag gcagatgaag ttgaacccat 540
 actggatgct ctgcctaatac tggagcagtt tatttactgc tcttctgccc gtgtctatct 600
 caaatctgat ctattacctc acgcagagac tgatgcagct gacctaaga g 651

<210> 5222
 <211> 527
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071b02d1

<400> 5222

gaacgaaaag ctcatgaata tttcacgact tcataatgta gcaaattccga acagcttttc 60
 taaatacaag tgaaatactt aaaattgaaa tagaaaagtt tatacgctaa caagactctt 120
 gccagaatt atgtcatctg ttgagaaatc agcctctttc cgatatgttc ctctacccaa 180
 gtccagggtg tacgagtctg ctagaccctc tacaagtcca aattcagggt ccaatccaag 240
 cacgtctttt gctttctcaa ctgatgcaaa gaaatgctgg tcacggaatg gaaatgattt 300
 ctttttccca aaatcaaaat ctttaggggt gtagtgaatg atctctggct ctgggaaccc 360
 accagcctta gcacatgctc ttgctaatac atcaaagtgc acatacttat ctcccagat 420
 gttgaatact tccttgctgg ctttctcatt accaagaacc tggataaaaag cttttgccaa 480
 atccttaaca tgaccaagtt gggttatctg tattcctgag ccggggga 527

<210> 5223
 <211> 631
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071b03a1

<400> 5223

caagggtact ccacagacaa gagaaagaaa gaaaacccca tttaaagctt ttttcttttt 60
gtactgtgca catcacaaga agaacaaga tgggtttttg aaccatcaca tgataaaaga 120
gagagaaaca aaaaaagaaa tagggatatt ggagaaaaac aagaagtagc tgcgcaagtg 180
gaagaagaag aagatgaagg aggagaatga atgaggtagag gcgtgttggt attcttgttg 240
ttgttgctga aatgggtctg ttgaacacaa gtgcatgtat ttgaccacta gtgtgttaaa 300
gctcagatct ttgtcttttg ttctcccacc tggatatttg agtccttcct taactgaaac 360
ccattttggt ggtgtttttt tttgggggtat tgctgaattt ttcttgtacc aacttggttg 420
ggttgattta gatgaaggcc gtgcccctac cctatcagga atttagaggg aacgngtg 480
tagattttgc ttctggtgct gctgctgctg ttccagattc gttgctactt ccacagcang 540
agcaatttct gcaagggtga acccccaaag ggaaaacttt tgctatgtgg gcattgaccc 600
ttttctgttt tgaccggata ggaaaacagc a 631

<210> 5224

<211> 519

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220071b03d1

<400> 5224

gacatcaaac aaagcctcaa ctttacaggg taattagtgt tactttcttg taaaacatac 60
aagaaaagcc cataaattta ggcaattaaa acaggacaaa atgcataaat agaattgtca 120
tgtttataat aatacacttc atatcagggc tcataaattg ccattgctaa ttaatatgtt 180
cacttcctta actgaaaata ataaatccta aaaacagaca attagcatag aaccatagcc 240
aaggcaaatt caagcaagaa agatcaatag aagcggttag ttatgtagca cttcgaata 300
tagaattaat tggtcgttca aagggtgcaga atggctctgc ttagcatctc caagttgaaa 360
ctgagatgag atccttcctt tgccagcaaa gaacaaggga agactgcctc ttctcaacat 420
ggaaccctt gctaggagtc ctctgcacca aacactcagc ctgggattct gtaaagttac 480

taaatgtcaa tgggtgaaaac ccagatgaca agagaaggt

519

<210> 5225
<211> 551
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071b04a1

<400> 5225

cctcttaaaa aatgaaaatt ttagaatatt cgctttgcc a ctgaaacttt attgtagatg 60
tagtccaaat gaaagatttg gaggttttgt ttgttccaat agtacatttg tctctaattcc 120
cgtacgttta aaacctctca aagaaaaaat atcgttggtg ctaaatatctt ttttatcttg 180
ttttgtttgt gttggatcga cagtatctga atgaagctag ttggaattgg agattgatga 240
agataatcat gacagtgtgt catgtgtacg acaaggagca aaactatggt gccttcgacg 300
aactcgcccc tgaagattca cgtccaatta catttttgaa ggaaaccatg cctgattatg 360
cttaattagg ttcaagctgg cttttttctc atatgaaatt ttttatgtat caaattacgt 420
tcgtatggca ttcattttct ttttacattt tcgatcttgc ttagtaatat agttctatct 480
ctcatatcat gtattacgag aaaattgctt gctgctctca aagtcacgta tagagtaatt 540
aattatatta c 551

<210> 5226
<211> 352
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071b04d1

<400> 5226

ctatggagtt tttctgggtt tattttttac ctttttttct tctatctcct tattccttta 60
tcttaacttt ttgcgcccac aacacccgcc gacacggccc aaaacaaaaa accccccacc 120
cgtcaaacca aaaccccccc gcgcaaaaaa cccaccata cctcattcac acaaaaaaac 180
cccaccgagg gaaccccccc cacaaaaccc cccaccgga aaaaaaaaaa aaccccccca 240
cccccaacc cctagaccac ccccccttt ctctccctc ccccaaaaaa aaaaaacaat 300
tctttcacca aaacacgggg cgaagggaaa aaaaaataat accccccccc cc 352

<210> 5227
<211> 678
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071b05a1

<400> 5227

tgtcttgctc ggctgatacg aatcantnan ccnttnnnnn nntnnnnncnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntttnnn nntttttntt tttttttttt 120
tttttggttt ttggtntttt tttttttttt tgtttttttg ttcattgagc agatgtcagg 180
tctgaagcat ctagtacatg gagcaaagca gcatcacaat gtgaaaaatg tatatgtatg 240
gcatgcacta gctggttatt ggggtggagt gaagccagca gcaaccggca tggaacatta 300
tgacactgcc ttggcatatc cagtgcagtc accaggcgtg ctaggaaacc aaccagacat 360
tgtcatggac agcttggttg tacatggcct tggcctagtg cacccaaaga aggttttcaa 420
tttctacaac gagctccatg cttacttagc ttcttggtga gtagatggag tgaagggtga 480
tgtgcagaac attattgaga cccttggtgc gggacatggt ggccgagtgt cacttactcg 540
cagctatcat cacgcgcttg aggtttccat tgctagcaat tttactgata acggatgcat 600
tgcggtgatg tgcacaaca ctgatgggac ttatagtgt aagcagactt gtattgtgag 660
agcttntctga tgatttta 678

<210> 5228
<211> 363
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071b05d1

<400> 5228

atccccaaaa acagatggga actttttatt taaagaaaca aaccttggtc cctcctcggg 60
gagaaaacaa aattctcttt ttatccctcc aattggagcc ctaccaccag tttaaaccaa 120
attacctgct ccacaaaaag ggcttcccca ccccatgact actacaacat gccttggtta 180
gcttttagga tcaacaaccc tttttttccc ctacatgaaa ctaaaactgg ggggggttaa 240
aaaaacctcc cccctttttt ttgcttggc tccaacaatt cctcaaggg ttaattacaa 300

caaaaccctt tttctgatac aacaatgctt taaacaccaa gttttaaaaa gggctcaaac 360
 ttg 363

<210> 5229
 <211> 641
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220071b06a1

<400> 5229

cggcgactcg ctcgagacag ttaatgattn cnccgcacgc ccacgaagca cggaacacgg 60
 ctcgaggtct ctctaatac tttatcattt ttcaaaaacc ctaaccgcgc gcggtgtctca 120
 cttgtcatcc ctctctcttc ttcttcttct tctttatcgt ggccgccatg gattccgagg 180
 tgcagcaatc gcaagtcgcc gccatcctcg gcgcggatcc ctcccccttc gagacgttga 240
 tctcgcacct catgtcctcc tccaacgagc aacgctccca cgcgagggcc ctgtttaacc 300
 tctgcaagca aaccgatccc gatagcctct ccttgaagct cgcgcaccta ctccactcct 360
 cgccgcacga ggaggcgcgt gccatgtccg ccatgtcctc ccggaaacag ctacgcgcgc 420
 acgactccta cctctggccg cgctctccc ctacacgcga gtcttgcttc aaatcgctcc 480
 ttctctcttc gattcagaag gagaacatca aatccatctc caagaagctc tgcgacacca 540
 tctacgaact cgctacggt attttaccgc acaacgcctg gccggagctt cttcctttca 600
 tgttccagtg tgtttcctcc gattccocta agcttcagga a 641

<210> 5230
 <211> 490
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071b06d1

<400> 5230

gtctgcaaac ttaataaata aatagcatta aaatttcata tggtaaacct tcatgctgtc 60
 tgataaggaa ataaaaccaa tacaataggc caaaactgca agaattgccc cacagacaac 120
 cctatattct cacgcaatat ggtaagaaaa aacaattgag gaatagaacg agaagctccc 180

acgccacaat tccctaacct cctcttttgg actcaatcgc actattaaca ctcataatat 240
acacattcta gagaaagttc cctttccaat cacaattgac tctgcattct caaaactgat 300
atagaacacc atgcaagaat gaatgatgga aaccatctta tggcaaaaag aatgggtaca 360
aatatagaga ccaccaaact ggaaaaagct tgttcccaaa aagagcaaga caccaactgc 420
caagccagat gctatgaaga aatgaaggat ttgcagcaaa agcatgacaa ctatgtagaa 480
aggatagatt 490

<210> 5231
<211> 470
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220071b07a1

<400> 5231
gcaggcaggt aagacagttt tggaatttca agctatggag cacaacgcta gcgttgtcct 60
ggcttatgct cacttacgag accggactgc gcataagttt gttgatgagc tatttataaa 120
gagacgagat ccattcccct cttactctgc ttccttcgta gattgaaaga taatatacct 180
gcatggccac caagcggatg ctaagagaac tcacggacct ctggaaagac cccttaacct 240
attgcagatc cggttccgta tcggaacata tgaaccattg ggcagcaact aaaatggatc 300
cccatatag cccttgtgga gtgggtgtat gtctagctag ctattaatat acctccacat 360
gatccatgca agccacccaa ggtattgacc taatgatgcc caagacaatg actactattc 420
tgaacttgat tacatatact tgacgaatat tgaacctcat tgtgtctata 470

<210> 5232
<211> 334
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220071b07d1

<400> 5232
agaccatata aagacagcta acgcatacat acccggacaa cacgctcaca tagccggcgg 60
ccgccctttt ttttttttta tttttttttt tttttttttt tttttttttt ttttaatttt 120
ctttttatgg gccatttttg ttttttttat cattttaaat ccattttatat aattaacaaa 180

aaaaaataaa aacaaaaaaa aaaccaatat aaaaaaaaaa aaaaatccaa aaaaaatata 240
 caaacaata aacaaatcaa caaactaaaa aaacacaaaa caaaaacaaa aaccttacia 300
 aaaacaaaaa aaccacaaac aacaacaaaa acaa 334

<210> 5233
 <211> 605
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220071b08a1
 <400> 5233

gctatctctt gtgtcgattg atcagtattc cgtagnnnnn ntntnnncngc anntnnncn 60
 nnnnnnnnnn nnnnnntnnn nnnnnntnn nnttttnnt tttttnnnt ttttttggtt 120
 tttactggcc caatggtnat aattgcattt ctgcatcg cacacctaata tttactggg 180
 gaggatcagc ttcaggggaa gaagacgtcc aaacttccaa ggtttcgcct atggacattt 240
 cctgtgcttg tgaagggacc atttgggggtt gtttctgcca cagagcttat tgggattgtc 300
 ctggttttgt tgtatgttat ctgggctctc tatgcttaca ctgtgagggc gcttgatttt 360
 atctctgaat ttgatgtgtc gtcctttaga gacaagagca taatcatgtt caaagttatg 420
 ggacttcgca cgggcgcaat tgggttaatg tgtttgactt tcctatttat ccagtttca 480
 aggggatctg ttcttctccg ctatatagat atcccttttg aacacgccac angatatcat 540
 gtatggctgg gacatcttac aatggtgatt tttactgtcc acggactcct ctatgttgct 600
 gcatg 605

<210> 5234
 <211> 509
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220071b08d1
 <400> 5234

aaatatacaa ggaagctaaa attgcatata aaatatgtct agtgataatg tatatatcca 60
 cataaggagt aaaattatat catcccgctt agaattagaa cccttctaag gactataggc 120

tattatagca ccaatgctac aaagggctct agaatttgat tactgcaata tacaatacac 180
attatatata tgcttttttt tagtgaatgc atgtcttcca tcttcctttt ggggaactag 240
agatcaaagc tgtgactgtg gaaatggaag atgggatgat ggcgttgtct tgtcactgtg 300
tgtgacctga tttcttcagc aacacttgct tgaagtgttg aagggccaca aactatgata 360
cccacatcaa caaggcccca tttctctgac attgattcat aaatttcttt aaagtctggc 420
ctggaaccat aacgaatgac agttgactta gcaatactaa cttgacttgg agcctcgnga 480
gtcaaagagc cattctgatg aatcttctc 509

<210> 5235
<211> 623
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071b09a1

<400> 5235

gctcggcatg tgcgaccgat cagtatacag tgaatgattc cncgtgacaa gccacggagc 60
tnggtattac gttggagcga ggagctggtt ttgaccattt ttgcagaata tggcacagaa 120
aattgagact tgggggagaa aaaattgaag gaaatgagaa tactagaaaa tgtcgaattg 180
actgcagaat ttgcagatat actggttaag tccaaagagg ccattgatat tcctagttag 240
gagcagcaaa gttctgaaca agcagaagca gaagacgaaa aagatgatga tgaagtggaa 300
gcagttgcta aaaagaatgg aacagatgaa agttccattg aggatgagaa agaagagttg 360
cctgagccag taccagaacc accaaaattg gttcgtatgg caaatttgtg tgttgtgggt 420
ggtcatgcag tgaatggggg tgcagagata catagtgaag ttgtaaaaga tgatgttttc 480
aatgcatttt ataagttgtg gcccgagaag ttccaaaaca aaacaaatgg tgtgacacca 540
aggagatgga tcaggttctg caatccagat ctgagtaaaa tataaccgag tggataggta 600
ctgaggatcg ggtcctaaat act 623

<210> 5236
<211> 236
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071b09d1

<400> 5236

ggattattct ttttgtctat ttctttttta caaacccaaa cccattgggt tatattcttt 60
aaaagaaaag gtttcaactca acccccagcg aacgcccata aacgattttc tacacaaaaa 120
cggaagaaat tttggccatt cgaccccccc aaaaaggggg ctcttcccca aaattttatt 180
cttatctgtg gcacggaaaa ataactctaa acgcgaaccc aaaaaaccag ggggcc 236

<210> 5237

<211> 600

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220071b10a1

<400> 5237

gattaaatgc tcttgctgga aaatctatga agtctggttc tgctgttgga ccttggaact 60
acaccaatgc tgaatcgta atacgataca cagtcagaaa gaagtacacc attcatgggt 120
gggaacttgg caatgaattg tgtggaagtg gaattggagc aagtgttgca gcagatcaat 180
atgcttctga tgttgctgct ttaagaaaca tagttgaaaa tgcataataga gggattgaac 240
ctaagccact agtcattgca cctggaggct tctttgactc ggattgggtc aaggaattta 300
taagcaaadc tggtaaactc gcagacgtga tcaccacca catttataac cttggggccag 360
gagttgatga ccacctaact gaaaaaattc ttgacccttc ctatctggat ggagaggcta 420
acacattcag cagcctcaaa ggtatacttc aaagttcatc aacctcagta aaatcatggg 480
ttggtgaggc aggaggggct tacaatagtg gccatcatct tgtgtctgat gcanttgtct 540
acagcttctg gtatttggac cagcttggca tgtcagctgg ttatgacacc agaacatact 600

<210> 5238

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220071b10d1

<400> 5238

aattgaaaac agaattgtcc tgtattctat tatcgcttat tttatcaacc accaagtga 60

accaattttc agtttcacct agtgccactg agctagctta gctgcaggcc gaaagaagaa 120
 catttggtat atgagcaaat acaatagata gaggaccaac tattattggc tttcttgagt 180
 ttacatatag aggctctaaa ggaggaattt caccagctga gtttacctt aacatttttc 240
 catttagcaa catagtttgg ctatgtaa at tctgtctgg tgcagttaa tgggtactctc 300
 ttctggctgg ttcacccact ctacggtagt gtaacttggt aaattttaag gccacattga 360
 cttgaacagt ggtgctgttg tccaagttga gcactagtat tgtgatccct ttggattcct 420
 ttgcacaatg tgcataagtt cttatcttct ttggcccata gaagggtggt aagaggacac 480
 g 481

<210> 5239
 <211> 555
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071b11a1

<400> 5239

ctctcccca caccctctc cgaaccttcc ccaaaaaaac cccccccaa aagaacctcc 60
 accaaagacc ggcacacgaa ggtcgacggt cgcggtcgtc gaattcgaat gccggctctc 120
 tgcgcgcta ggggtgtcca gctcacgct gagctgggac acaagtctga cggcgagacc 180
 atcgagtggc tctccaaca ggcggagcca tccgtcattg ctgccaccgg caccggcact 240
 atccccgcta acttcacct cctcaacatc tccctccgca gctccggctc atccatgtcc 300
 gttccctccc aactacgatc cagctacttc cacaactcaa acttctccct ccaacctaga 360
 agaagcctat tctagaaaa caccaacact ccttcacaaa caacaacact ctttcatttc 420
 caatccaaca acaacaacgc catcttccaa cccaagcacg aattgcgga atcttcatca 480
 ctagacttgt cctcagagaa caacaacgaa gaggggtatt ttggaagaat aagaagaccc 540
 ttggagcaag accta 555

<210> 5240
 <211> 447
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071b11d1

<400> 5240

ggatatggaag tgaatcgttt tctttctctt ctcaacataa aaagcataaa attaattaca 60
aatcaaaagg ctttcgggaa aaaaaaaga gaagaaaaga aaagccaatt gcacaaacaa 120
tgatgataag atatcgctc gtgaaataaa gccaaataat atccaactgt taaatagggt 180
catatatctc tcaagcccta aaaaaaaac ctctcttctc tcttcttcca tcatccacca 240
cccaccctt cccaacatat taaccacacc aaattaagaa ataaaaaaa atttctcttt 300
tcatcaaaat aaacaaaact cagttccgta gggaaaataa taatcaaacc ttacgtcatg 360
acgttgtgtt aaaacaccaa actactacac catgtggaat caatcatoga agaacacgtt 420
gattgaataa ttcgttgata attcatt 447

<210> 5241

<211> 533

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220071b12a1

<400> 5241

gcgttttagc tctaagctct ctcatctcac taaccacac aacaccgccg cgccgtcact 60
cctgcgaggt tgccgcggcg tcgtttgacg gtggcacctg ggtcctaacc atctcctctc 120
taaagcagag ttgaatttct ctgggggact cgccgtccct gtctcaatct cgcattcattg 180
tcgtcgccgt caccgtcacg gaggatgctg gaacagcgtc taatggcgtc cctttctcaa 240
tctcacaata tggcactccc tttctaaacg cagcggtttg ctgctcttcg tccggcaagg 300
taagtgatga tggcgagact ggctcctcct ttcagtatct ttagacaatc ccattactgg 360
cgcccacttc tctcttctca caacgccaaa cgcaccctaa cagctgctac taacttctcc 420
atcacctcat tagctcgaac gcccaaata cagagcgaag gaacaaccac catcgттааг 480
ctttcgagca aagccagaag aaaagccttc tatgagtctc cagaaggagt ctt 533

<210> 5242

<211> 409

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220071b12d1

<400> 5242

aaaactgaag gggccaaaat tggatgaatga atcctggcca tacatccatg tctggaaccc 60
aagggcccaa ataatcatca ctaaccccaa atttattttc aggaaaagtt ttttagccca 120
agctgcccaa caaggctatt ctattttggg tccatagggg ggttccagag gcaaactaaa 180
gggtaggtaa agctaaattg gaccagttt cgaccctggg aacaatcagc tcctaaaaaa 240
acttaatgcc ccttgacaaa agttcttgag caaatccat gggacaaatt agcttcccca 300
ataagaaact cccccaagcc atttgacca tgctggtaaa attttacttt aaagcattat 360
ttctgaaaac cgggagcaat atcagctatt aaataaaatt taaagattt 409

<210> 5243

<211> 590

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220071c01a1

<400> 5243

tgctcatcgt gggcgctcag atcgaanacc gatganngat anacccaaan agcaaaaaaa 60
taaaaaaaag aaaggagaag gangatggag attgaggagt ttatactac ctattaggat 120
tagtcttcgc tttgggtcc cctccaacg gcttcacgg taaacatttc ttcggcctca 180
aggacatccc ttcacctcc tacgactaca gctacttct ctaccaatgg gccttcgcca 240
tcgccgccgc cggcatcacc agcgaagca tcgccgaacg cacacagttc gtggcctatc 300
tcactactc ctcttctc accggttcg tctatccgt ggtctccac tggttctgg 360
cccagacgg ctgggcctc gcctttaaga tcaccgacg gctattttcc accggcgtaa 420
tagacttcgc cggttccggc gtagtcaca tggtcggcg aatagccggc ctatggggag 480
cgctgatcga aagccaaga atgggacgtt tcgatcatgc aagacgagct gtggccttgc 540
gaggccacag cgcgtcctta gtagtcctg gaaccttctt gctntggttc 590

<210> 5244

<211> 546

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220071c01d1

<400> 5244

ataaaaaacta cttccatata ttacattag acataatgaa aaagtttaac ataaaagtct 60
caaattaagg aaaagaaaaa aaaactatat gcctcacggc caaacagtag tatttctact 120
atataccaat cttcttctt ctttttttggg gaaaactaca aaaataaatc ccacaaattt 180
ccattttcca cagccatctg tcatttccag gaccaacatg ccttagtcaa caaccacccc 240
ccacagaaac gtacgcatct tccaccagaa tctttaactt ccagcatcca ccaatgcacg 300
accaatgaca attacaaatc aaaatcccta attgcccata atcataaaaa gaaaaatcta 360
cgaaaaaaga agaccaaga caaataaaaa aaaaagaagt aaaaagtcac gagtatcaac 420
cggagttgga tctaacagaa gtaacaagta accaaggttt gaatccttac aaggaatatg 480
tatccaaatt taatgtttga ctaatgagac atgcatatgg gaaaaaaga tcattcatca 540
gtggtg 546

<210> 5245

<211> 557

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220071c02a1

<400> 5245

gctctacatg ctgactgcat cgcacgcagt gaangataan ncnnaaaanc tanaaanaan 60
aanaaaaaaa aaacttatgc atgttcactt tgtggcttat cgtaacagtg atcctcaact 120
aggagacttg agtgagagcg agttcttgta tgagcagggtt aaatcaatta aaaagattgc 180
agagtatgtg actcaactga gattagttgg acagggtcat ggtgtgtggc actttgatca 240
aaggcttctt catgatgaag atctataatc tttgaacagc ctctgttttc tatacatatg 300
gccctatgtg aagttatcac cgtgtcgttc tgaccgtagt aatagtgaat aagtgtgttg 360
ctctgtttgt agcaatagtg aatagtgaat aagtgttctt ctctaggtg ataaaaatgt 420
agggaaacttt gtgcttgat tatagctgat ggtagaatgg tagcagtagt attattatgt 480
gcaatctcat atatgagggt accatgtaat catatgatta gaaattacat atgacgtccg 540
ggtaagaaaa ctatata 557

<210> 5246
 <211> 479
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220071c02d1

<400> 5246

aaccgaacgt ttttttttat ttctaataaa atgatggggt ggtacaaaca tatatgagat 60
 tgcacataat aatactacta ctaccattct accaacaact ataatacaag gacaaagtgc 120
 cctacatttt tatcacctaa gagaggaaca cttattcact attcactatt gctacaaaca 180
 gaacaacaca cttattcact attactacaa acagaacaac acggtgataa cttcacatag 240
 gaccatatgt atagaaaaca gaggctgttc aaagattata gatcttcacg atgaagaagc 300
 ctttgatcaa agtgccacac accatgaccc tttccaacta atctcagttg agacacatac 360
 tgtgcaatgt ttttaattga tttaacctgc tcatacaaga actcgctctc aatgaagtct 420
 gctagttgag gatcattgtt acgatctgcc aactgtgaa catgcaaaag tttctccta 479

<210> 5247
 <211> 563
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220071c03a1

<400> 5247

gatgcatatg gatcttggag cataaccact gctgctgaac gaagcaaatt actgaggaaa 60
 tggatatgatt tgctaattgt acataaagaa gaacttgac agcttataac cttggagcag 120
 gggaaacctc ttaaagagtc tgtgggtgag atagtctatg gggctggctt tattgagttt 180
 gcagctgagg aggcaaaacg tatatatggg gatatagttc ctgcaccttt ttctgatcgg 240
 cgattatttg ttctaaagca gcctgtaggg gttgtaggtg caattacacc ttggaacttt 300
 ccccttgcta tgattactcg aaagggttggc ccagcccttg catgtggctg tacagtggctc 360
 ataaagccct ctgaacttac acctctcact gcttttagctg cagtgggaact ctccattcaa 420
 gctggaatac caccgggtgt cgtgaacgtg gtaatgggaa atgctcctga tattggggac 480
 gctttacttg caagtcacaa ggtaaggaag atcacattca caggctcgac agcagttggg 540

aagaaattga tggctgggtc agc

563

<210> 5248
<211> 465
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071c03d1

<400> 5248

actaacctcg tacctttcac agtgcatttt ttaatggggt aaaaatctgg gaaaaataaa 60
gagaatgaaa aaggaaagca aaaagaacca aacagaaaaa tgaggaggcc ctttgcaagc 120
cagcacttat ttgtatacaa cacgggagca gctatatgca tattcttcaa ctaagaaacg 180
caaggtgact cctccctatt ttgcttggca ctggctcggg cttcattctt tggatcatgtt 240
tccgaagcac acatacttga tctctaaaga ttcattccatc ccatatttgg agccttctct 300
tccaaggcca gactgtttta aaccaccaa tggagccacc tcagttgaaa ttactccttt 360
attaacaccc actaatccat attcaagagc cttagaaaca cgccatgatc agtggatact 420
gtttgtaaat acatatgaac ccaaactgc gttagtgtca ttagc 465

<210> 5249
<211> 552
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071c04a1

<400> 5249

gcaagatctt ggtgaatgca tggtggctgg tcaacaaccc tgcacactgg aagaagccag 60
aggagtccg gcctgagagg ttcttcgagg aggagtgcgt tggtgaagcc aatggcaatg 120
actttaggtta ccttcccttt ggtgttggca gaagaagctg ccctggaatc attcttgcac 180
tgccaattct tggcatcact ttgggacgtt tgggtcaaaa ctttgagctc ttgcctcccc 240
ctggccagtc acagattgac actagtgaga aaggagggca atttagcttg cacatactca 300
agcattccac cattgtggca aagccaaggt catttttagac tccaccacat gatcatgatc 360
atatgatcaa tccccttaat tntttctttt ttcttttccc ttttctttac tctgtattgt 420
atcaatgctt gaaaatggg ttggtccaaa aatgtcatat atacttggcc tgctaattggg 480

tattgaaatc tctgaacttg aagtgatgca tcggtttgag atggtttcta ataaacctac 540
acttttgtct ct 552

<210> 5250
<211> 458
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071c04d1

<400> 5250

agagacaaat gtgtaggttt attagaaaac catctcaaaa ccgggcatca cttcaagttc 60
agagatttac aatacccatt agcaggccaa atatatatga catttttgga acaaccccat 120
tttcaagcat tgatacaata cagagtaaag aaaagggaaa agaaaaaaga aaaaattaag 180
gggattgatc atatgatcat gatcatgtgg tggagtctaa aatgaccttg gctttgccac 240
aatggtggaa tgcttgagta tgtgcaagct aaattgccct cctttctcac tagtgtcaat 300
ctgtgactgg ccagggggag gcaagagctc aaagttagg accaaacgtc ccaaagtgat 360
gccagaatt ggcaatgcag gaatgatttc aaggcagctt tttttgcaa cacccaaggg 420
aaggtaccta aagttattgc cattggcttt aacaagcg 458

<210> 5251
<211> 535
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071c06a1

<400> 5251

tgacacttca tcggacctga atcgatcagt attacagtta annngatttt ntccataaaa 60
taccataaaa aaaagtggga aanaaactat gttactcata tattaatat ttttttttaa 120
ttattttgaa acagatgaaa tattaatata atataataag tggatctacc tgggacaatt 180
ttctatactt tcttttactc atcaccata ttacatacac ttaactctat ccttctttaa 240
cgaaaagaaa acaagatgaa tagctccac caagattagt tacactactt tgatgaatgc 300
tttcgcatac tcgggtcagc cgaaacttgc tcacagagtg ttaaacgaga tggacagtta 360

ccctcgattc aacgtggatt tgatcgcatg gaacatgatt agatgaagga tattgcagat 420
 tgcgattgca tgcataaggct aataaagtga tccacaagat gaacgaaagt ggatttcacc 480
 ctgatctgag cacttatggc agattagcca acggaattgc ataggcaacg aaacc 535

<210> 5252
 <211> 438
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071c06d1

<400> 5252

aaaattacaa gtcacgaaa ttatacattg atttcatacc tgggaaacct gagctttaat 60
 tactaaacga ctttgcagat gtagagtaca ataggcactt tttttagtta actaaacatt 120
 tatttgtaca ttgtcaatta gaagaggcct ttctcactact tgactatgtc atgaccagct 180
 attaaagggg gagcaactaa accgaatcat aggtattgcc atacccttcc atagggctta 240
 accgccactc acttacatcc taatctgaat tatgcctacc catccaaaac ttaaagcct 300
 cagcagccct ttacctctct actcttgctt cttgtgtagc ctttgaagcc tgcttactag 360
 taaacattct tgaatgcatt ttcacatgga ttctagctaa ctcggtcctg gtgggaggca 420
 tcccatttta cttcatgc 438

<210> 5253
 <211> 452
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071c07a1

<400> 5253

gaaatatctc tttcatagaa cggagaaaga cagcatgcag gaagcgacga aggtgataat 60
 aatcggtgcc ggaacttctg gtatcgccac cgccggttgc ttaacgaagc aatcaatacc 120
 ttacataatg ctcgagagag aagactgttt cgcttcgctg tggcagaaat acacctacga 180
 tcgtctacac cttcattcga ggaagcaagt ttgcgagtta ccgcacttac cgtttcccaa 240
 gtcttaccct cactacgtgc ctcggaagca gtcataagac tacttgggaa actacgttaa 300
 ccactttgag atcaagcctc tgtaccagcg tgcagtggag ttggtggagt atgatggatg 360

gaaagggatt tggagagcga acgctcagaa tagtagatct ggtgagcttg acgaatacgc 420
tggaaagtac ctggtcgtgg ccagtggcta aa 452

<210> 5254
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071c07d1

<400> 5254

aaaacaacat acctaattca tatccccaaa agaagaaagt gtcatgtaca tactgtttct 60
gcaaccaata atagataata gatcattaca tgacacaaat tccttctctt tcttcttgag 120
gaattaacga ggcaatatca tttgctacta attgggcatc catgttagct ccaaagaaac 180
cccttcttga cagcccaaca caatacaaac catttcgacc tttccaatga tttgggaaac 240
tgtttttttg aaagccatcc tcatttagaa gatcatcacc ccccttaagc cacttttgag 300
ttgatctctt gaagcctgta cagaaaacaa ttgagtcgaa tgtgtacgat ttgccatcct 360
ggaacaaaac ttcattacct cttatactct ttatttcagc tggcaacacc tacataacat 420
ataatagaat taatcaacct cagctcatac gtctcttcag ttgaaatddd tttttcttaa 480
cctcttaatt ttaaccaatc agctgaaatt tattttgtta accttttaat tttaa 535

<210> 5255
<211> 586
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071c08a1

<400> 5255

actgaaagca ctcagtaggg tttgcggttt cagagtttgt gacgcacgca tccatggcca 60
ccaccaccaa cgccgccgca gccccgccgc gccagctctc ccagaaggaa gccgacatcc 120
agatgatgtt agccgccgac gtccacctcg gcacaaaaaa ctgcgacttc caaatggaac 180
gttacatctt caagcgccgc aacgacggga tttacattat taaccttggg aagacatggg 240
agaagcttca gttagcagct aggggtattg ctgcaattga gaaccctcag gatatcattg 300
ttcaatccgc aaggccttat ggtcaaagag cggttctgaa gtttgctcag tacactgggtg 360

ctcatgctat tgctggaagg cacactcccg gtaccttcac caatcagctt cagacttcgt 420
tcagtgaagg tcgtctcctt atcctcactg atccatgaac agatcaccag cctattaagg 480
aagctgctct tgtgaatatt cccaccatcg ctttctgtga cactgattcg cctatgaggt 540
atgtggacat tggaattcct gccaaacaca cgaggaaacac agcatt 586

<210> 5256
<211> 270
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071c08d1

<400> 5256

gataaaataa aaaaaataa aacaaatata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaacaaaaaa aaaaaaaaaa accaacaaaa aaaaaaaaaa aaaaaagaca aaaaaaagca 120
aaagcaacct aaaaacacaa aaagcaaatac agaaccacaa acaaagaaac aaaaaaacia 180
cccaaagaa agaaacaaaa aaacccaaag tgtaaaaata gaaaaaccaa aaacaaaaaa 240
aaaaataaac ccaacccccca aagaaccccc 270

<210> 5257
<211> 613
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071c09a1

<400> 5257

tgctttctca tgtgcacatc cgatcagcat atcgttgna tgttcnctcg gcaactccctc 60
gtaatgcagg aattctgctc gagtttcgtt attctcttat tcattttttct cttctgaata 120
atccagatct gtttctgggg ttttctccgt cacgcttttc gtgaccggat ctgtatggat 180
ttgatccaga tctacacgcc gatggtggct ttggccgggt ctttcataga tctggtgcgt 240
agaggctcag atctacggta ccgaggtaca acagagaatc gatgacaaga acgcagatcc 300
gacggtagat ccagccgatt ccgcttggtc gatcgctaca gacccctgta tcggatcatt 360
aagcagcgtg tctcgccgtg tctacacgtg ttgccgatct cggatgttgt aaaattagtt 420
tatgatgtga agctatggag tggaaaatat gtggatgtag gagatttcgg gatgaatggc 480

ctcaaaacgc tttgtcgttt gtggctattg agtcctgagt gatcttgtca tccgaccttt 540
gccatgacag gtgcgcttgc atggcaggtc aaaaaatgtt aataaaaaaa ggttttattgg 600
tttggggaga gat 613

<210> 5258
<211> 524
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071c09d1

<400> 5258

gtcatagcag atttcatata ggcgtcttcac attgatattc caatcatcgc cagaagattt 60
acaatgttaa tgacctaat ctgcattaca aatgttgtcg cccgaatctg aacttcttac 120
aagtagataa ttgtacaatt atacaaagcc cccgcaatac aaatggccca tcttatttgg 180
atacaagtaa ccggagttaa ccaaatacag taagatgaaa aagggaacaa ttacatgac 240
aattacaaca gtatagcttc acaatttcta taaacagtaa aattatgcat aagggaagtcg 300
cagcaggcag ctaatatgaa atgaagacaa ttattaataa attccttggc tcgatttatt 360
ttcactatga ataacgtgat attagattca tgaggatatt atacctacca gaatattgat 420
gaactccacc tagcatcttc tgccaatatg attgccagaa ctacatatta atattaatta 480
catgaccagc ttattaatgt actagaatat gtcatgaata ctct 524

<210> 5259
<211> 567
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220071c10a1

<400> 5259

atggaggcta cttcagcagc cactgttccg acaaccttct acatgtcccc ttctcaatct 60
cacttgtcca acttcggaat gtgttacggt gtcggagaaa atggtaactt ccattctcca 120
cttacggtta tgcctctcaa gtctgatggg tcactttgta tcttggaagc tctcaaaaga 180
tcacaaacgc aagtgatggt gccaaactcg tctccgaaat tggaggactt tctaggtggt 240

gcaactatgg gaactcacga atatggaagc cacgagagag gtttgagcct agacagcatc 300
tattataact cccaaaacgc agagggtcaa cccaacagag accttctttc acaacccttc 360
aggcaacaag gtcatatgag tgtccaaaca cacccttatt actcaggcct tgcttgccat 420
ggtttatatc aagcacggtt ggaggaagaa acaacaaagg aaacgcacgt gtcggattgc 480
agctccctaa tgcctcanat gacagaaggc ttgaaaaact gggtggtccc aacaaggagg 540
tttttctctc accagcaggt tttggag 567

<210> 5260
<211> 465
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071c10d1

<400> 5260

aaacttagga aatcaaatta gaaataaaag atgaaggaaa aaagtaaatt ttagttacat 60
aacataacat gaaaaatgga ccgtgcctat ctccatttaa gtatcagtcc aagaagcaaa 120
aactggcaag tgagacaaag agatagcagg agaaggcctc atttgaaccg ttggtgaggg 180
tagccaagag gtaacactgg taccaatggg gttcacaatc tttgtttcca ttggaggcat 240
tggaacaga agcgaggagc cccttttctc aggactagcc tctcttgagc tgcttaaact 300
tgtcaccagc gatgacgtgt ttgaaaaatg agtcccaatt ttgctagact cgtccagcat 360
attatgctgc ccagaacca ccgaatcaat cccaataaga tcttgtaggg ccatagaaaa 420
tgcactgttt ctgtaatttc cacagttcat tattttttgg tcaact 465

<210> 5261
<211> 595
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071c11a1

<400> 5261

gaaaatgtgg aagagaacgg gttttgaaga agaagcagtt caattgatca actcagattt 60
cagggacctg agtctagctg ctaatagact cgcccatcat gccatcaaac ttggtggcat 120
tggttttggg gcctcttttt tcggattggt tgctgccatt gctgctatct atctgttgat 180

tttggatcgt acaaactgga aaacaaatat tctcacagca ctactcattc catacatttt 240
 cttcagcttg ccttcattaa ttttcgacgt cttcagggga gagcttggaa aatggattgc 300
 tgcagttgct gttgtattac gccttttcct tccaagacac ttccctgatt ggctggaatt 360
 gcctgggtgct ctgattcttc ttatcgttgt agctccttct ctaattgcaa gcacctttag 420
 agacaacatt gttgggggtgg tagtgtgcct catcattgca tgttatttgc tgcaagaaca 480
 cattcgggct tctggtggtt tcagaaactc cttcactaaa gctcacggca tatcaaattc 540
 cattggcata atacttctgt tgtttatccc atctgggcgc tgggtgcata ctttt 595

<210> 5262
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071c11d1

<400> 5262

agcaacaaat gtaaatttat attatatccc acaggtaaaa atacaacgat ttcccaaattc 60
 atacatgatt tatgaatata cgacagctag aaagacacca catcaatcct cttcatcttt 120
 tgttttctac attctatgaa accagaggac ttaaactgag attttattcc actttttaac 180
 acatgctaac tttaggctctt aggacaaaca tgaatcacia aacaatggcc ggggtgtttat 240
 agatatcaag ttgcaacaaa tgaatgatac agaagacact tggtttaatt ctacatatc 300
 aaccaagtcc aaatggtggt gcctaaaaaa gtatgaccac cagcgcccag atgggataaa 360
 ccaacagaag tattatgcca atggaatttg atatgccgtg agcttttagtg aaggagtttc 420
 tgaaaccacc agaagcccga atgtgttctt gcagcaaata acatgcaatg atgaggcaca 480
 ctaccacccc aacaat 496

<210> 5263
 <211> 577
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071c12a1

<400> 5263

gaaaaatgtgg aagagaacgg gttttgaaga agaagcagtt caattgatca actcagattt 60

cagggaccta agtctagctg ctaatagact cgcccatcat gccatcaaac ttggtggcat 120
 tggttttga gcctcttttt tcggattgtt tgctgccatt gctgctatct atctgttgat 180
 tttggatcgt acaaactgga aaacaaatat tctcacagca ctactcattc catacatttt 240
 cttcagcttg ccttcattaa ttttcgacgt cttcagggga gagcttggaa aatggattgc 300
 tgcagttgct gttgtattac gccttttctt tccaagacac tttcttgatt ggctggaatt 360
 gcctgggtgct ctgattcttc ttatcgatgt agctccttct ctaattgcaa gcacctttag 420
 agacaacatt gttgggtggt tagtggcgct catcattgca tgttatttgc tgcaagaaca 480
 cattcgggct tctggtggtt tcagaaacta cttcactaaa gctcacggca tattaaattg 540
 cagtggcata atacttctgt tggtttatcc catctgg 577

<210> 5264
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071c12d1

<400> 5264

agcaacaaat gttaaatttat attatatccc acaggtaaaa atacaacgat ttcccaaate 60
 atacatgatt tatgaatata cgacagctag aaagacacca catcaatcct cttcatcttt 120
 tggtttctac attctatgaa accagaggac ttaaactgag attttattcc actttttaac 180
 acatgctaac tttaggtctt aggacaaaca tgaatcacia aacaatggcc ggggtgtttat 240
 agatatcaag ttgcaacaaa tgaatgatac agaagacact tggtttaatt ctacatatc 300
 aaccaagtcc aaatggtggt gcctaaaaaa gtatgaccac cagcgcccag atgggataaa 360
 ccaacagaag tattatgcca atggaatttg atatgccgtg agctttagtg aaagagtttc 420
 tgaaaccacc agaagcccga atgtgttctt gcagcaaata tcatgcaatg atgaggcaca 480
 ctaccacccc acaatg 496

<210> 5265
 <211> 564
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220071d01a1

<400> 5265

tgcacatctc catgtgtcta tcaactcgca tatcagttaa nnggttanat cttaaanacg 60
caatatttaa aaaaaaatat gtatattatt ttattttttt tatatttatt tataattatt 120
tttttttaggg gtatttggtta ataatatatta atttatatta ttattatttt ttattttaca 180
tggttaaggat caattctgaa ccaaatatgg gaatctaatt ttacacctca gaaaatcatc 240
agaggtttag gtccttgggg tcttgatatg gtcctcaagt ataccagtgc cagggttggt 300
acatatataa ctgggggaaac gctgacagaa tctgaatcga gattactgac agattatggt 360
taccatactt tagcagccaa agctagtggc gagctgtgct taaaatatat attttcattt 420
ggaggactcc cgaggtcacc tcttcttcac agtgcttcag agtggaaagt gcctaccacc 480
ttcatatatg gctttcagga ctggatgaat tatgaaggag cccaagaagc acgcatacaa 540
atgaaggttc catgtgaaat cctt 564

<210> 5266

<211> 484

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220071d01d1

<400> 5266

cagtattgaa atttatatta gacgtcatta ttttttgaat tgccattaca agttacaatt 60
gcaaattcca tttaagcatg aataggacat ggcttgaata aataaaggag tttaatttgt 120
aaaagaaata tataatcata gacagcatta cacaagatta tactctatgc agaggtagc 180
ccttcaggaa gggattcact gtctggatca ggcctaagaa accttttaca agcataaaac 240
actgctgaat ggaagccact tgggttggtca atgaacacaa agtgcccggc ctggggaacc 300
ctaaggattt cacatggaac cttcatttgt ttgcgtgctt cttgggctcc ttcataattc 360
atccagtcct gaaaaccata tatgaagggt gtaggcacct tccacctctg aagcactgtg 420
aagaagaggt gacctcggga gtctccaaa tgaaaatata tattttaagc acagctcgcc 480
acta 484

<210> 5267

<211> 637

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220071d02a1

<400> 5267

gcttattcat gctgacgtca gatcgaatac caatnanana taaaacanaa aaaccaanaa 60
 aaaaaattaa aaaaaaaaaac aaaataaaac attctnagct ttanaataac ttgattctgg 120
 tgggacctgc tggattctca tcagaatcag aaagaattac aaagttctta tcaacatgga 180
 aaggatcaat cctgaaccac atatgggaat ctaattgtac acctcagaaa atcatcagag 240
 gtttaggtcc ttggggtcct gatatgggcc tcaagtatac cagtgccagg tttgttacat 300
 atacaactgg ggaaacgctg acagaatctg aatcgagatt actgacagat tatgtttacc 360
 atacttttagc agccaaagct agtggcgagc tgtgcttaaa atatatattc tcatttggag 420
 gactcccgag gtcacctctt cttcacagtg cttcagagtg gaaggtgcct accaccttca 480
 tatatggttt tcaggactgg atgaattatg aaagagccca tgatgcacgc aaacagatga 540
 aggttccatg tgaaatcctt aggggtcccc aggccgtgca ctctgtgttc attgacaacc 600
 caagtggcta tcattcagca gtgttttatg cttgtag 637

<210> 5268
 <211> 419
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071d02d1

<400> 5268

cagtaatgaa atttatatta gacgtcatta ttttttgaat tgccattaca agttacaatt 60
 gcaaattcca ttttaagcatg aataggacat ggcttgaata aataaaggag ttttaattgt 120
 aaaagaaata tataatcata gacagcattt cacaagatta tactctatgc agaggtagc 180
 ccttcaggaa gggattcact gtctggatca ggcctaagaa acctttttaca agcataaaac 240
 actgatgaat ggaagccact tgggttgatc atgaacacta agtgccaggc ctgggggaacc 300
 ctaaggagtt cacatggaac cttcatttgt ttgcgtgctt cttgggctcc ttcataatta 360
 atccagtcct gaaaaccata tatgaaggcg ggaggcacct tccactctga aacactggg 419

<210> 5269
<211> 562
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071d03a1

<400> 5269

tctctctcct ctgtcttata actttacctt tctatcctca tggagtagta aagaagtaac 60
taatcaacca caaacctaaa caaccctttt tgcctaaagc tccttccttt tctccaatgg 120
caacctgggt tttatcagaa tgtggcttaa ggctcttcc accagtgttt ccacgggtcaa 180
caagacccat ttcgtgccaa aaaccttcaa agtctagatt tttaagcaca aacaaggggtg 240
tgccagatct gaatctccaa gcaagagggt taacatgctg tagttttagg gatagaaagt 300
gggaattggg agtgagtgtt ccactgaaag ttgccaccaa tgaaggagag gaagaagaga 360
gaaccaatgg ggctaataat ggggttggcg aggaagtttc agaatttgac cctagtgcac 420
caccaccctt caaattggca gatattagag ctgccattcc taaacactgt tgggtgaagg 480
acccttgagc gtccatgagt tatgttgcta gagatgtcat tgtggttttt ggggttggtg 540
ctgctgcagc ttatctcaac aa 562

<210> 5270
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071d03d1

<400> 5270

gctacaattc tattcaatta ctatcattca acattgggtg ttgagtttga gcaaaaaatt 60
gtaattaaat cgatgaagac agcacaccct tcatcaagaa tgaacaattt acagattcct 120
tgtttttcaa tgagagcaca ttacatatac accctgatca tgcttttaaa tgcactcggt 180
tacaatatca aatttgtcat gcattcattc gctcatgagc aattcaacta gtagactcaa 240
tgagagtaca caatcttcaa agttcagaaa ttgtgtcata tgcagcataa ttctgaggcc 300
tctctgttgt cttcaagagg aaaaaatgga tgatttactg tgatgtggaa gagctactaa 360
gtgtagggtc tgtttgatag tataacaatat cgccactgtc actgacaaaa tggctcttct 420

tcatgcttct taacaattct ccaatgaagt aaattggaag aggactagac t

471

<210> 5271

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220071d04a1

<400> 5271

tggttgatc cagtggaggc ttcaacctac gaacttgctc ttataatcac tcgctctcct 60
acgcttcttc tttctctctc cactcccatt ccacacccca cactcttctc ctctatttaa 120
caacgcccga aaaaaaatta gggttttcaa tttggggaaa taaaaatagg gggaaatatt 180
ctggagagag tgtgtagaaa atatggttgt cgatgatatg acgctgtgca tcatcgtcgg 240
ctatggaggt tctcttcttc ctctgttctc cgatgcttat cccaaaaggg gtttgatgga 300
ggggagatat agtggggatt gatatgtgca aggtgtttaa gcggcntgct cctgctgac 360
gtgcttcttg ggatggccat attgcacgaa ccagctttaa aactcatgca ccagacgagc 420
tagcctgggc gattcttgct taacttctat gtccatggag tttcaccacc ccttcacgct 480
ctt 483

<210> 5272

<211> 479

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220071d04d1

<400> 5272

attccaaagg tatgatttgg taatttctta taaatgatga gaactagctg ttcaatactg 60
cttacaatca aaagcataat acagatgcac cggaacaaaa agaaccaggg cagtcagtga 120
gctaaaattg ctagagacaa acataagaga cacaattcta ttgcaaataa cactgtatgg 180
tacaaagtta gaaaaacaat gacatacgaa ccataccgga atccctaaca aattttttta 240
agtgcctatc tcaagttaac ttgagatcat tccctcccag atgagggcgg aggcaaacc 300
ggacttcatg ctcttttggc cccacgcgat gttttggcac caggatctca agcaactgatc 360
ctggcccacg gtagtatgct tctatgttgg catcttcagg aattcgagtt gaaagagggg 420

tttctcggac gaactctcca ggggggcagt gctctgacga tggatctgta agcttgaat 479

<210> 5273
<211> 620
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220071d05a1

<400> 5273

cattgctgta tttcctactc agcattacca gtaaannggn atataaacg agaaaagggc 60
caagaagaga tacatggtga agaataagagt aagaaaaggt aatcatatct ttatttgtcc 120
ttattcaatt catatatact atctttccct gggctcacgg gtgctctatt ttattgcaca 180
tatccctctt tatggaacag caccatggca tattcactgg ttggcgtaca gcataatcaa 240
taccacaag gacgtagatg tcaaacaatc caagggtcat actactaaaa acacaaagcc 300
aaatattgac tctgacaatg tagcgtctc ctctcaact aacaatgctg acaaaactgg 360
tggatttaac acgaatatgc caatgaaaca gcaaggggaa aagaaacctg ctgcacagcc 420
tcatgcatcc aggactgttc ttgaagagaa tatagtacta agtgttgcac tggagggatc 480
aaagaggaca cttccattg atgaagagat tgacaatgtg acatctcgag aagcaaagga 540
aatggctgca ttgcacggtg gaaatggatc tccaaggctc cagatggaaa agacaactag 600
ttattataag cagcgagtcc 620

<210> 5274
<211> 493
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071d05d1

<400> 5274

gatgaaagcc attttccata tattgctgaa acagcaaaaa atgaagagat atgacaatac 60
agctcgagtc ctttgtaaaa ggggtgtgac acatggaagt gataatacat acaacttcct 120
aagggtggga aactggttca aagcagtgtg ctgttggtgact tggaacatag ctttcaaaca 180
actaatgatg tgtttgaaa accgttgtaa tccgttgaa caaacatttc ccaactttcca 240

atgtacaaaa gtagaaacaa gagtgggtgtt ggattggggt tgcattggac gtaactgcaa 300
 tgcaaacacg agctaactag tcgaactcgc tgcttataat aactagttgt cattttcatc 360
 tggagccttt ggagatccat ttccaccctg taatgcatcc atttcctttg cctctcgaga 420
 tgctacattg ttaattttct tatcaatggg aagtgtcctt tttgatcctt caatgcacac 480
 ctaatactat att 493

<210> 5275
 <211> 584
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220071d06a1

<400> 5275
 cgtggctacg gctctganac atgtgnnnnn ttnnnccnnn nnnnnnnnnn nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnntttnnnn nttnnnnnnn nnnnnnnnt nnnntnggn 120
 ntntggggn nttttttgtg tgtgtgtgtg tgcttggtgc ctctccattt ccaaaacacc 180
 aacaccacc tctctcttct ctttcgcga cctctttcc cattcaacc acgcttcaa 240
 aaccaccacc agccctctc ctctctcga attccagcta ttcacccctc cggggattga 300
 acccgacgag gtcgatgact ccacggctct tcccggctcc aacatcgccg tcggacccta 360
 cgccggccat tcccacatca aggacgtcca gtgcgtaaag agtagcgccc ggttcgtaaa 420
 gagtagcgcc cgcgccaggg attgccc aaa agacaaccga cctgaattcg ccgttcttgg 480
 tcgctccaac gtcggaaaat cctccctcat caattccctc gtccgcaaga aagagattgc 540
 tctcacttct aagaaaccag ggaagacgca gtcacatcaat cact 584

<210> 5276
 <211> 473
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071d06d1

<400> 5276
 ctcaaactg cgcacacttg gcaacattat tattcgagcc tttaaaaata catcaaagca 60
 ttacaatgt ttacatattg caaaaagatt agttttgctc cagaaaatct taaatgccaa 120

agcaatggta ccccaaaata tgtattctgg caactacgga taaataaagc cagcacgata 180
ctatatccca gttgaaagca tacaacattt cctgggatgt tttatcccca tttgcatata 240
acgtgaccat taaccctaata actcaggggc agtatgtgga aattcattat ccagaaacaa 300
ctcaaacttg attcccaagt aagttgtata tgttgttgca gttcaagaag aacaaagatc 360
ctgaatcctg atcaaagatc cagctgaaat atttcaaggc tcaaccaaac ccatagctct 420
ttcacatgac tcttccatat agttgcatct tttacaagtt caactttgac cct 473

<210> 5277
<211> 453
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071d07a1

<400> 5277

ggcgtgcccc tcatatctac gggctgcact gtgcactgct tgctgggtgat ttacaaaatt 60
gcttttaaaa atgacatttt ctgatcaaaa gagtgtacca gaggaatca taaaagagc 120
agcagctgtg ttggatgcca tttcaaataa taaccatgtt gagcggttat gcaatgagaa 180
cgtctctgct caagatcgtc aatacaagga tgccatggag aaattggttg aatttgatat 240
tgacaaaggc gacttaaaac ttttctttga ggatgtattt tctctagttc ttaatgcttc 300
gtgactgaac tgaagtcttc tgttggtggt tttcgtaggc attattgaga cgccatttgt 360
gatcatatga catttgtttc aagatgagtt gcataacctat cgaattctat tgtattgagc 420
aatcctttta tggagaacta attgaaaaag aga 453

<210> 5278
<211> 398
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071d07d1

<400> 5278

caattagttc tccataaggg gattgctgaa tacaataataa ttcgataggc atgcaactca 60
tcttgtaaca aatgtcatat gatcacaat ggcgtttcaa taatgcctac gaaaaccacc 120
aactgaagac ttcatttcag acacgaagca tttagaacta gagaaaatac atcctcaaag 180

aaaagtttta agtcgccttt gtcaatatca aattccaaca atttctccat ggcatccttg 240
tattgacgat cttgagcata gacgttctca ttgcataacc gctcaacatg gttattattt 300
gaaatggcat ccaacacagc tgctgctctt tttatgaatt cctctggtac acttttttga 360
tcagaaaaag gcatttttaa aagcaatttt gtaaatta 398

<210> 5279
<211> 297
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071d09d1

<400> 5279

aacagggaca tttttttgaa ttcgaaaggt tgggaaattt aatagctctg aaaaaatgcg 60
ttaaacaatc ataatcaaac cccgatcatg gtaaaacaac taaaagcgct tttaatccaa 120
ctaaaacggg tgccacataa gcagctgctt agtatctgac tgatttagca acctcgaaag 180
attgtgccac atttttctta ggcgtacctt ctttaatgcc ctgtccagaa ttcacgatat 240
gtttcccat acctgctttt ctacagtggt catttatccg atcagtgctg aaccctt 297

<210> 5280
<211> 573
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071d10a1

<400> 5280

ctattattct atctatctat tgtttcgttc catctcacia aaagaaaaga aaaatgaaaa 60
tgaaaatgaa aatgaaaatt tcaagttcct gaaagagaga gagagaaagt tgaggactta 120
aatagtttca gttcctgaat tccattagat ctcttgcat ttgtaaacag ttttcatcgg 180
aaagttcggt acttgatcgt agtttgttcc ctccgatcgt tgctcgaatg ttgttttttt 240
agtgacaaaa gaatctggtg ttttatgct tctggttatt ggatgagctg tatgttttaa 300
ctatggtggt gaagaagagg gtagattatg gatttaattg ctttcgagtt cctgttatac 360
ctaaagctcc tagatctgcc agaaggaggg ttgctttcaa caaagcagtt gacgatggtc 420
aagtttgccg tattgaacta ctggcatctt tagctggcca attgttgcaa gagagtgaaa 480

gttctgcttc cagcaatgcg tctgaaggat atcatcaacc tgccttcagc caaggtgtaa 540
 ttgagcaaga tatacaagat gaagttaaac cat 573

<210> 5281
 <211> 284
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071d10d1

<400> 5281

attcttgcct gcattcataa atattaaata atctaagcaa aaatcaaaga atggcacaag 60
 tgacagtgtg aacaccctca ttggggcaaa tcattcccaa aagccaaccc tgcaagcaat 120
 tactggggcac aaataaaata aagtaagaaa attacaagaa aaagcatcga atccacaagc 180
 acaaaatctg ttctcccaag atcctgtcac aacgaccctc ccattctcac catcatcaca 240
 actgaatgga ctaccataac ctttaacaca gacaaagtct gctc 284

<210> 5282
 <211> 315
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071d11a1

<400> 5282

atctaaagtc actttgggga gccattgatg agtgtgcctt cccactcaca tggaccaaac 60
 cgggacaaag gcagaaaaac tgggcatagg gcacggaggt ctgcggcacc aaactgtacg 120
 agcgatcgaa atccgcgaag ggactctcta ttactgaagt tcagagtcaa ccgaatgaga 180
 tatgaatgaa tcagaaccat gcagcattga taggaacaat gttcaacaca ctactgtggc 240
 ttacgctgat aaccaaaccg ggtctgcggc tggagatccc gacagtagac atgaccttt 300
 aagagagctc cgaca 315

<210> 5283
 <211> 343
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071d11d1

<400> 5283

ggcacggagg aagcaacagt gacagaccta ataagcatta gggtaacat tatatatacc 60
aacatttatc cataaact acttaacagct gatttgtctc agcgcatgac agcctgtaga 120
catatgacac agttccatcg atctactctt tcttgactaa cctgggaata tacacgtgct 180
gcctgcagat cctattgtga gcccaaaggg ctgctaaggt gctacaccga gactgacaca 240
tatagaatta tgtatgactc ggctcagctg aaacagaaga tgtataactaa cagctcgta 300
tgatgatacg ctttccgagc atgccgacca ctgcggaag ctt 343

<210> 5284

<211> 601

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220071d12a1

<400> 5284

gctcattttc acaaacttgg tttttgttct tccaacaacc caaatctcaa acctctcct 60
ctctctctct tgtgattctc tttctttctc tctcttcaaa cttggacagt ttatggcagc 120
agctagattg tcggggcatg aattgtccga tctgtgtctt gggaaaccgc cgctcaggtc 180
cctctccgtc cgcgacaccg tagccgacgc cctcgccgcc ttgaagagga tcgacgacac 240
ctacgtcagc gtctggaact gtaaccactc tttcattcga aaacaacaac ctcaaattaa 300
atcccaggaa cagctccaat gctgctgcac ctgcatcggt aaggtttgca tggctgacat 360
catctgcttc ctctccaaac cccaaaacct ctcttcacct tccgccgctt ttctttcccc 420
aatctccgct ctctccacg acaactccgc cgtctcgtc cgccacctc caccacccgn 480
cagtttactg gaggtatag atgttatgca cgatggggtg cagaacctgg tgataccaat 540
acanatccag tttggatctt ttgacctcaa cancgtcac cacaatgaca acaccaccta 600
c 601

<210> 5285

<211> 549

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220071d12d1

<400> 5285

atggaaatta aactctttaa gattttttcc ttgaaaact aaattacatg atggaacatc 60
ttgggaggcc aaatttaagc aaaagaaaat cacgggtagg taaacaaaaa gcaaaattga 120
tttgtgccta ggcacaaatc cgtgctatct acttcatatc tcgattcttc gacaaagcca 180
aaagagatca ttgcaagcg gatttttatt acaacaaatt agctgaagtg gtagcatata 240
gtagtcgtta tctgcatcat catcatcatc atgtaatgta gtagttttta agtaactggt 300
agcacatgga ttgaggtgg tctctgaaaa cttcaacat tccttggaat gtaacaatcc 360
ccgtcaaggt tccatcctct tccacaacc acacgtaact cacacgatgt gccaatgctt 420
gaatcatcac agcaactaaa gagctccaac ggtagcaaac aatggcttca gaccttctcc 480
caacccttgc agagtaccct ccaagcttcc aattcttccc agagcaaaac tcttcatcag 540
aagaacaac 549

<210> 5286

<211> 652

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220071e01a1

<400> 5286

gcgtcatcga tcgattcagt aaaagataaa gcganaaacc aaaaaaaaaa aaggagagaga 60
ggaaaaagga gaaaagtttt aaaatttaca gtagaacctg agattttaac ggtatcagat 120
tctgatattg gaatatcagg atctggtgcc aaatacactt atgatagatt tcctgcaaat 180
atcagaacag aagaacaaga agaaaagagg aaacagattc ttgcagcagt tagtaatgct 240
tttgagtact caggaaggca tactcctagt aaggatcctt tagcagatag tcttagtcca 300
gacgagagag ctgctgaaag ggatcgcatt gtgctagata ttcagggtta gctgcagggt 360
ttatggctgc ggcttcttaa actgggagca acagatgata ctctctcatc ctttgaatat 420
ggaacgatac tcgctctgat tgaatctgat gcagagggga ttggcggtag tggatttggt 480
gaatgtataa gagagcatat acattcgggt tgggactgtc atctcactga agaacagttt 540
attgcagtga aagaattgct taaaacagct attaatcgcg caacatcacg taatgactgg 600

ttgaccatta gagatgctct tgaagttctt ctgaatgtta agatagatat at

652

<210> 5287
<211> 454
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071e01d1

<400> 5287

aactaatcta tccacactaa taaaatttgt tcttcgtagc agtatgtaca ttcagaatac 60
agaaacctct aaccacaaaa ttacaagtgt tcgcaagttg gactcatcag acatatcttt 120
gcacattttt atatactata aggaaaataa acaaaaaata atggagataa cccctcctct 180
tcattaagta ccttgtcttt cacctttaaa attgttaca tttacaaacg tgaaaatgca 240
tttaacgatt gaactcaaat attaatagtt gcattccaca gccttataag cccgttgcca 300
ccaccgctgc atatcctttt cctttccaag tctgaagcaa cacaccttac catagcaact 360
gttttctgtg gtgttctgta aagctgccaa ccagccatct tggaccagc gccagataaa 420
ccaccaagtc tttcttgggg ccggtgaaag agcg 454

<210> 5288
<211> 513
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071e02a1

<400> 5288

acactcta at ccccatcaat cagcanacag atcaggatta aacaaaaagt caataaataa 60
aaggaacaaa tcaaaaaaaaa aacaaatatt taaaattttg aaaaacaaaa aaaacacccc 120
ggcacctctt taatacttct taccctaatt cccccaataa acacaacctt tctgacacat 180
atatatgcat ccgtttcatt tacagcccaa catggaaatt tccaaaggct ttttctagat 240
cttaccgat ttcaagcccg actagatttt ccttctgggt tcaaatttct ttcaactacg 300
actgatttaa cacaatacct tctcaattct caaaagccca acatggatgc tgttcaagct 360
attataccca atgctacact atcacttcaa caccagatcg atcataccgt cacttttaga 420

attgctttca acattacagt tgatctgaag aaccctgatt ggccgataca tgcaccggaa 480
ccagtattag ctttggaataa tgcattgcaa gta 513

<210> 5289
<211> 384
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071e02d1

<400> 5289

attatcttat atttgcgtta ctttgggggtt ttttttacta tacacacctc aaatgcactt 60
tacctataca agtttgggaa ctagactact gaatagtctg gaagtggaaat cgcaacaagc 120
gttgcaacaa atcaaaatgc aaacgatgaa actgcaaaaa gaatcatagc gcaaaatgca 180
tatagaggga tagaacctaa acctctactt aattgacctg caagctcttt agaatagaac 240
tggtataagg aattgataaa caaacctggg taatccgcac acgcgatcac ccaccacatt 300
tataaccttg ggccaagact tgagcaccac ctaactgaaa aaatgcttga cccttcctat 360
ctggaaggag aggctaacac attc 384

<210> 5290
<211> 534
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071e04a1

<400> 5290

tatctttagt gtttctagct cctcagagaa atcaaaggtc aagacagggc agcagcagta 60
ttccttctcc cattcacgtc gaccaaatca ttctttacat ggtgctcatc cgaacttaga 120
tatacagaaa attagtcttg gtaattccct tagtgtcaat acttcccagag agtggaatgg 180
tgtctcttca gctgcaaagg acaacttaag tcccaatagt agagttgtgc ttagtccagt 240
tggtgccact agatccactt ctctatctgc tccttctagg aacttaggta acaattcaac 300
cccttctgca tggataacat tggagaagag gcctactttt cctatccaga gcaggaatga 360
tttcttcaag aatctttcaa ggaagagttc cttggaaaaa ccttgctctg atggtttgtc 420
tattgacatg tcttgtgcct tggagaaatc tgaagccagc atgaggaatg tctctagttg 480

tcccattctg gagtctagag atgcttcttt agtggatacc tctggtttga acat

534

<210> 5291
<211> 571
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071e04d1

<400> 5291

aagagaaaaa agaactctca tactctatctt cttctttttt gtttcactgt atactattct 60
actagcaggg tcctattaaa caacaggaag ttcactcttg gtatcttcat tttctcctca 120
tgctcagaaa ttatatccag catgattatt tcactagtcc ttagtaaaga gtctatgctt 180
tgccgtgata ttagtagctt tttcttgata gagctttcca attaaccaaa aggaaaatct 240
ccttatctaa cagccacctt cgcctaattt taacactcat gccctaaag agatatattt 300
aaagcacatt ttttgtctca tcactttcat attccaaatc ctgcaatatc ataattctta 360
attctaaaca taactcatgg agctccaaca cattccccag cattcaagtc aagtggctga 420
gtaatgaata atgtttttga cgtatatgtt ggagaatatt tgatcacagt ttcaatttca 480
tgtacttctc atagaagtct tgtatctcct cttcagtgag gccttcatca tattctccag 540
cacttttctc ccaccaagc gaacgtaaaa a 571

<210> 5292
<211> 598
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220071e05a1

<400> 5292

tgtatatcca gttgccttcg actcgtagac atgtgaaaan ataaancgga aaaaccacga 60
aagataggaa ttaggggtgga ggagagaact taaattgcgg gttttagtga cacaaatcta 120
gggagcacta ctctaggagc tctattagat tcttcaaaac atgaccatgc atcgcgagtc 180
ttgggctttt gtcttcggcg ttatgggcaa catcatctcc tttggagtgt tccttgctcc 240
attgccaaacc ttttaccaaa tctacaagaa gaaatccact gaagggttcc agtcacttcc 300
ttatgttggt gcactgttca gtgcaatgct ttggatttac tatgctttcg tcaaaaggga 360

agctgccctc cttctcatta ccattaacac atttgggaatt gctgtggagt caatttacct 420
 tgcaatcttc ctactttatg ccccaaggaa gcctaggctt acaaccatca agcttcttct 480
 cttactgaat gtgtttgggt ttggagccat gcttctatca actctctacc tgtcaaaggg 540
 agcaaagcgt cttgctatca taggatggac ttgccttggt tcaacatcag tgtctttg 598

<210> 5293
 <211> 499
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220071e05d1

<400> 5293

actaaagtaa ttcattttca ttaccogaac attaattacg agggcaaggg aaaagtgaat 60
 tgaaatgagt ttgactgggg gatacaccga gagaagagaa tatactacgt tacacgtagt 120
 agtacaatat gagagtgata tgggccaaat taagagagac taagtgttgt ggccaacagt 180
 tacatctacc cgaacaggca aattaaaacc acacctttac attaatcgaa ctaaattaac 240
 atttatacca aatactactt actattcttg cattgtagat atgagtaata ttagatgtga 300
 cctcactcag taaagtaatt gaagtttagg ttattccctt tttttaactt ttcttgtcat 360
 tgatcccttg tttctccaca ttcatataat ctcaatgggtg atattcaaac tttgccaaca 420
 gcaccagcag tagctgcgtg attcggttcc attgttccca ttttccacg acaatgatgt 480
 ggccattcaa ttcttgagc 499

<210> 5294
 <211> 571
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220071e06a1

<400> 5294

ctcgcaagca aaaagaaaga attccaggcg aggagaaaga tggaggggaa ggagcaggat 60
 gtgtcgttgg gagcgaacaa gttccccgag agacagccga ttgggacggc ggcgcagagc 120
 caagacgacg gcaaggacta ccaggagccg gcgcccgcgc cgctgggttga cccgacggag 180
 tttacgtcat ggtcgtttta cagagcaggg atagcagagt ttgtggccac ttttctgttt 240

ctctacatca cegtcttaac cgttatggga gtcgccgggg ctaagtctaa gtgtagtacc 300
 gttgggattc aaggaatcgc ttgggccttc ggtggcatga tcttcgccct cgtttactgc 360
 accgctggca tctcaggggg acacataaac ccggcggtga catttgggct gtttttggcg 420
 aggaagtgtg cgttgcccag ggcgattttc tacatcgtga tgcaatgctc ggggtgctatt 480
 tgtggcgctg gcgtggtgaa ggttttcgag gggaaaacaa atacggtgcg ttgatggtgt 540
 gccaaacttt gtgccctgct acaccagggt g 571

<210> 5295
 <211> 456
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220071e06d1

<400> 5295

tcggcggccg cccttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttatatgac tctgggggta tttttgattt tgcaaattaa attacacaat cacagccgta 120
 cattacacat gagttgggcc ttttccaact taaaagcaga ggataacatt ggcccatgac 180
 gcgacacatg caccacctaa taatcataat ttacatttt tacatacaaa atacaaagac 240
 ttttaattttt aaaaagaaga aaagagatta accgatcatt ttaatgaaat gaaacaaaaa 300
 cccacaaaaca ttggcttgat ttttggtggt gttggtgttc ccaacttgat taagcatgaa 360
 ccgtttgatt gaatcacttg gacttgaagg gaatggccct gattaccacc tgggtggtaaa 420
 atgctgcaag agctgcaccg atgaatgggc ccaccc 456

<210> 5296
 <211> 594
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220071e07a1

<400> 5296

gtgaagagtg aagagtgaag agtgaagtaa caaaacaaaa agagcggagg gaaagtcgtg 60
 ggaacgaaga agccaacaaa gacaaatcaa ggtgaaaagg aaaaagccct tatgcttttt 120

tgagtttgtt tctcaccagc ttgagttgtt tagaagctca tcttaagcat tgtggcagac 180
 ctgagtgagc attttttgag tggaaaatat gagctacagt ggctcctcaa tgagttctgg 240
 tagtggatct tctagaagga catttgagtt tggaaggacc catgtggtca gacctaaagg 300
 gaaacaccag gcaactatag tttggctaca tggccttggt gataatggct caagctggtc 360
 ccaactcttg gaaactcttc ctcttccaaa tattaaatgg atttgcccaa ctgctcctac 420
 acggcctgta gccttatttg gtggatntcc ttgactgct tggtttgatg ctggggagat 480
 ttcagaagat gctcctagtg atttggaggg gttagatgct tctgcagcac acgtttgcc 540
 tcttngtca acagagcctt caaatattca actggtattg ggggcttcag tatg 594

<210> 5297
 <211> 547
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071e07d1
 <400> 5297

accaccaac aaccataggt tttttctgtt catatatcta taatgaaatc ataggcaata 60
 tttataaata tgacttacta aaatttgact ttatttagac agaatatgaa tacagaaagc 120
 aacatactac atatccatgc ccgaatgaaa taaacaaaat ttgctggatg tgaaggaaac 180
 tatccatgct cttccaccaa agcattccca aatcccaaag caataaagat agtgagtgac 240
 ccttggaattc aaaaacattt atttagtacc atgagaatat aagagagaga acaaagcggc 300
 tatgccattt accaatatac cccactacac cacaccacta tgtattctat agcccctctt 360
 tcattgccta aaactaaggt tttataatct gaccttggtg agctttattt ctctagttca 420
 accgaaaccc ctccagtccc aaatttgag ttagccacct gcaaacttca tcagtctctt 480
 cagggactgt atagtgaccc accccattgt agctcctaaa tataagattc tggaatcctg 540
 atgaact 547

<210> 5298
 <211> 536
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071e08a1

<400> 5298

gttccttagtt ctggggaccc agtttgctgg aggagtgttt ctgggaactg caatgatgca 60
ttttctcagc gacgctaataa aaaccttcgg ggacttaact cgcaaggagt accccttcgc 120
gttcattgctc gcgtgtgcag ggtacttgat gaccctgctc gctgatgctg tcatttcctc 180
ggttttgaag aatacggggc gtgaccaacc gcgtgatgct gaggatgtcc aagttcaagg 240
ggctgatgtg agcaaagtaa gtaacaacag tgtagatct cagtcacaac accggagcca 300
ttctatttct agctctgac atcatcactt agcaaaccct gcacttgat ctgtccgttc 360
gcttgagac accattttat tgattgttg cctttgtgca cattctgtgt ttgagggtt 420
agcaattgga gttgctgaga ccaaagcaaa tgcattgaaa gccttatgga caatctgtct 480
gcacaagata tttgcagcca ttgccatggg aattgctctc ctccagaatga tttcta 536

<210> 5299

<211> 491

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220071e08d1

<400> 5299

aaataacagc atagcttcta ttataaatca tgtctacaga caaactattg atctataaat 60
tcatttctat agctttgtat atatttcttc tccgttcccc ttgcctata atgatttagg 120
ctaccctcca tgtgaactac cttcttccc aagactttta taagtctct taattctcaa 180
tacatgctca tcttttctat catttgaggc aaatttctgt catcttttct accttataaa 240
tgattgacga aatcatttct gacaagaata tccaaatacc aaatctgacc taggaactac 300
cacaactttt tctgtaatgt acgtattcat tatcaaaaag ataaaaaaaaa gaaaaagaaa 360
aagattctgc aaatgctgta aagagaagtt atcttggaa aaccttaggt gtcccaaattc 420
atcacaaccg ctatcactcc cacaccaac atcacggcat gaaacttgaa ataggctgag 480
tcaacctttg t 491

<210> 5300

<211> 510

<212> DNA

<213> Glycine max

<223> unsure at all n. locations
<223> Clone ID: jC-gmf102220071e09a1

<400> 5300

taggagaaca ctaacatgca tttattcaaa caactcctca gttagtttca tttcatggct 60
aactattccc accctcatat ctgccaatgt ctgagtcact tgctgaccct ccggcaacat 120
tttccggtca taattgccgg aaaccgccgc aagaccggcc aagagttggt ggaggaagtg 180
ttgtccttgg cacaaggcct gctccacctt ggactcacat ctggccaagt ggttgccatc 240
tctgctttca atagtgatag gtatctggag tggttattag ccattgcatt tgttgaggga 300
atagctgctc ctctgaacta tcgctggagt tttgaagagg caagattagc aatggctgca 360
gtgaagcctg tgttgtagt gattgatgag agcagttaca catggtactc aaaactccag 420
caaaatgatg ttccatctct gaagtggcat attttgttgg attccccttc ctcagatttt 480
ctaagnggaa cgtgttaact ccagaaatgc 510

<210> 5301
<211> 486
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071e09d1

<400> 5301

gtactcaatt aatgtgtcac tcaataaatt gattagcatt ttcacatgaa gccgtatata 60
tgaggaatca tagcaataca gtggtttaag gggcattgga gctatgatat attcaaagat 120
tactatgtaa agattgtagt tgagacataa cttcctttct gacttgatct ctttttattt 180
tccctattgt agtgagtgga aatggctttc tccatacaat aaacattttt ggtatcttaa 240
acctgcttaa atgattttct atacagtatt gctgaatatt ctttctagat aggagaaact 300
cttcatttga agcagacaac tgctctgacc attgccaat tttctcttagt tggatacatg 360
ctgctaccat ctctgtcagg tgagcatctg ggattcccac aacaacaaca cttgcaatcc 420
ctggatgttg ctgtagaatt gcctcaacct cttcagggta aatgttctcc ccaccactct 480
tgattc 486

<210> 5302
<211> 439

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071e10a1

<400> 5302

acctttcttt tttttgtttt ttaacaaagt tttattctag ttctgctaga tcctaggggg 60
aatccaggga gaatagacct gacatcaaga acagaaatca aaattataga taattgacaa 120
atattacttt aaagccaacg cctcgattac ctcaattgct acaccaattg aagattcata 180
ttatgatgtg gttaaacttg ttaggccagg aacagatatt gctattctat ccattaacaa 240
ataacaggcc cgttattgcg cacgaatttt tttcaaagac tgctgcatat aaaactcaag 300
cccgaattct gactttgctt atgactcaat gagagaactt tgctactaac ttgtcaacat 360
gggtaacgat atcatctacc ctgggcccg tggaactct tttgtgaacc atccttgaca 420
agaactgatg aacaacttc 439

<210> 5303
<211> 542
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071e11a1

<400> 5303

aaaacatctc aatgggttct tcttttatta caacatcgcc cgcaaccatg accatggctg 60
cgatcgtgct cctgttcacg gtctttgccg tttcctccgc cctagacatg tcgataatct 120
cgtacgacag cgcccacgcg gacaaggccg tcacgttgcg caccgaggag gagctgatgt 180
ccatgtacga gcagtggctc gtgaagcacg ggaaggtgta caacgcgctc ggcgagaagg 240
agaagcgctt ccagatcttc aaggacaacc tgcgattcat cgacgaccac aactccgcgg 300
aggaccgaac ctacaagctc ggactgaacc ggttcgctga tctcaccaac gaggaatata 360
gggccaaagta cttgggaacc aagatcgatc ccaaccggag gctcggaag accccgagca 420
accgctacgc gccacgtgtc ggcgacaaat tgcctgattc cgttgattgg aggaaggaag 480
gtgctgttcc tactgtcaaa gaccaaggag gctgcgggag ctgttgagca ttctcagcaa 540
tc 542

<210> 5304
<211> 490
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071e11d1

<400> 5304

gaattccaca ttgtaagcaa attaaaaatag catgtgaata tgggacaaat ccaaattattg 60
ctgctgcatt gtcacataat ctacagaacc ttgaaaacta acagcaatca aatatgttcg 120
ccatttggaa tttgaataca aatacagtgc atcgataata taaccctatg tacagagcca 180
atgtctgact gaaatttgat acagaacatt atctattttg tatcataata aaatggtaaa 240
gatctttatg ttacgtgcag cattatgtga agaaggggga agtgcacca gctggtgctt 300
tagcccttcg acttcccttt tacttcatca ttggctcctt ctgcacgttc acatttcctt 360
aaactgctta agcactgctg acctgttct tacgtccgaa ggtccaatgg ggtttcgctg 420
gagtacgctt taatgccttc actcccaagg ggttgttctt gtcctgaga caagttccag 480
cgtaagtgtt 490

<210> 5305
<211> 570
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071e12a1

<400> 5305

gaaaatcact gaattttccg tgctgttttc tccccactga cacaagttgt agttttttaa 60
gagtatatta tgtacctaaa ggatttcaga ttttgagttc atgagagcaa tgtaaaagtg 120
aagttctgaa ctgtaacaa gtttggaaaa ctttgtgcag tgcagtgtgt taagatggaa 180
gctatgttca tcttcagaag cagtcattga aaccagaaat tgaagatttg aagtgatttc 240
ttcttagaaa tcagaatact agaaaatact agcacagaaa taatgtggga tttcctcctt 300
tttttacatg agttttgtct catttaggag aaaaaaatgc aagttctgca tatttcattg 360
agcaattttt gaacttgtcc tcgtattcta gattctgcac gtttagacaa tcagaaatcc 420
tgagccaatc catggctttt cattggttat ttttaattgt tgtgtcctca ggttctttaa 480
atatcagcat tatttataga accaaatgat gaatttcctg ggtatagcct ttcccataac 540

catatgcttt atcgcttttg tgatatcgaa

570

<210> 5306
<211> 346
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071e12d1

<400> 5306

atagggcacc aagggccatt ttttataaaa atatcccaat tctacttatt aattacaacc 60
cttctaata ga ctataggaca ttactattac ctatgctaca aatgggccta aaattagatt 120
actgcaatat acaatacaca ttatatatat gctatatattgt aatgaatgca tgtatatcaa 180
tctttctttt ggggaactag agatcaaata cataactgta gaaatggaat atggaataat 240
agcaactcta tattcatacc gagagacctg atttcttcaa taacaacatc gcctgaaact 300
atacaatggc ccacaaacta tgataccac atcaacaacg ccccca 346

<210> 5307
<211> 434
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071f01d1

<400> 5307

ccccccgaat taaaaaaaaa aaattttccg cccccaaaaa aaaaaatttt cccccaaaaa 60
aaaaaaaaaa cccgaaaaaa aaccctttaa aaaaaagtta aaagggcccg gaaaaaaaaa 120
cccggggggc cgttttttgg aaacctttgg aaaaaaaaaa aaaaaaaac cccccccctt 180
ttttttggcc caaaaaaaaa cccaagtta aaaggctcaa tttgggaaac ccctaaaacc 240
aaaagggggc ccctaaaaaa aaaaaaaaaa actccccccc ccgggggggaa ttccccaaag 300
gggggggaaa aaaaaaaatt ttcccatccg gggggggcaa aaaaaagggg gcccccaaaa 360
ttgggggggg ggggaaacc ttcaaaaaac cttttttttg gaaaaataat aggggggggg 420
aaaaaaaaagc cccc 434

<210> 5308
<211> 703

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220071f02a1

<400> 5308

tgccatttct acatgatcat gcgtctgatg cagtatagca tattaanntg gtttaananc 60
ataaanaagc ataaaaaata taaatttaat atattatata tacttatact tatttttttt 120
ctttttttta tttttttatc tactattttg gggtagctgg ttttctcaa ccaccatggg 180
agattctaata cggatttcgg ttcaccgtgt tctcggcgaa ggcttagttg ctgatgtggt 240
gttgtggaag aattggcgtg gagcggttgc ggtgctcgta tctgccacca cattgtggta 300
cctcttcgag cgtgccggtt acaatttctt gtccttcgtc gccaatgtcg tgttgcttct 360
cgctcgtatt ctctttttct gggccaaagc tgctaacctt ctcaatagac ctattactcc 420
tgttcccgat ctggccatgt cggaggaaac tattgccagg gttgctgatg cactgcatat 480
ttggttgaat cgagccttgt ctgttgaca tgacatagcg attgagagga atctgctgct 540
ttgctccag gttgatggtg tattgtgggt aatatcttac attggcagtt tgctcaactt 600
tttgactttg atctatatct gtgttcttct tagcttgtct ttccctgtat tgtatgacaa 660
ataccaggac caatttgatg gcctgctaag tgtgatacat ggg 703

<210> 5309
<211> 319
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071f02d1

<400> 5309

acttgcccc ttcattatth gggttgtact gcttctcaat gagctgctgt gaccccaaaa 60
catggcaacc gccatgctcc agcttacgga aaggacctat gacgaatgct ggggtcactt 120
cggtaactcg gcagcactca cacatatctc acgctccagg gccggtgcc aattcatata 180
cagacattgg tggagtcttt ttgcggcgca actctgtgaa caaacgcgat tggtagccac 240
gagagagggt agagcctata cagcgtctat tataactccc agaacgctga ggctcagccc 300
accagagagc tctcttcac 319

<210> 5310
 <211> 540
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220071f03a1

 <400> 5310

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 ttctttctcc cattcacgtc gacccaatca ttctttacat ggtgctcatc cgaacttaga 120
 tatacagaaa attagttctg gtaattccct tagtgtcaat acttcccag agtggaatgg 180
 tgtctcttca gctgcaaagg acaacttaag tcccaatagt agagttgctc ttagtccagt 240
 tggtgccact agatccactt ctctatctgc tccttctaag aacttaggta acaattcaac 300
 cccttctgca tggataacat tggagaagag gcctactttt cctatccaga gcaggaatga 360
 tttcttcaag aatctttcaa ggaagagttc cttggaaaaa ccttgttctg atgctttgtc 420
 tattgacatg tcttgtgctt tggagaattc tgaagccagc atgaagaatg tctctagttg 480
 tccattctg gagtctagag atgcttcntt agtggatacc tctggtttga catgttgact 540

<210> 5311
 <211> 489
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220071f03d1

 <400> 5311

aagagaaaaa agaactctca tactctatctt cttctttttt gtttcaactgt atactattct 60
 actagcaggg tcctattaaa caacaggaag ttcattcttg gtatcttcat tttctcctca 120
 tgctcagaaa ttatatccag catgattatt tcaactagttc ttagtaaaga gtctatgctt 180
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 aaagcacatt ttttgtctca tcaacttcat attccaaatc ctgcaatata ataattctta 360
 attctaaaca taactcatgg agctccaaca catccccag cattcaagtc aagtggctga 420
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tgtactttct

489

<210> 5312
<211> 640
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071f04a1

<400> 5312

caaaaggcct tcgttgagga ggtcatggag cttgtggagc tcaactccgtt aagtggagca 60
cttagtggggt gataccatga gaaatgcatg gactgacgac tgagcaacac acaaagattg 120
actatagctg ttgaataggt cgcccaatcc ttttatagtc tttatggatg aaccacttc 180
tggattggat gcccgggctg cagcaattgt gatgagaact gtgaggaata tagtgaatac 240
tgggcgaaca attgtgtgca cgatccatca gcctagcata gacatatttg aatcctttga 300
tgagcttctg ttcatgaaaa ggggaggaga gctcatttat gctggtccac ttggccgtaa 360
accttgcgaa cttattagtt atttcgaggc aatcgaagga gttccaaaga tcagggtccgg 420
atataaccct gatacgtgga tgctggaggc tacttcttca gttgagaaaa cagactgtga 480
gtggactttg cagaaattta ccgaaaatca agtttatatc aatataacct acagtggttg 540
aaggttgagc agccttgtgg aattcacaag aatgcttttt ccacaagtat gccggcatct 600
ttgagcagta ctacttgta tggagcaaat ctttgtactg 640

<210> 5313
<211> 444
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071f04d1

<400> 5313

gtcattacca accagtaatc tgatttcatg ggtaacagag gccctataaa ccaatagtac 60
gtcactttac aacaatttgt ccctgaatta tgtaaaacaa aaataatttg gataatgtat 120
tcttattagt ttacaaaccc taaaagcaca ctagggtat gctataatca tatcgctata 180
cagatggcac gcttattttt atgaggtatc gaagatccaa catacaattt ggtttcaatg 240
tctctagtgg ctagegagtc ttatcccatt atctcctttg gaaattgatg gatttaattg 300

caaaggcaaa tataattgca aaaaatatgc agaagccagc caccataaca gcagttacgc 360
acaagaaatc atgcctgtgc ccaaacacgt gattgagata cctcttttat aagcatcgag 420
tttcttttat agagcttccc taaa 444

<210> 5314
<211> 541
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071f05a1

<400> 5314

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gtgtcgttgg gagcgaacaa gttccccgag agacagccga ttgggacggc ggcgcagagc 120
caagacgacg gcaaggacta ccaggagccg gcgccggcgc cgctgggtga cccgacggag 180
tttacgtcat ggtcgtttta cagagcaggg atagcagagt ttgtggccac ttttctgttt 240
ctctacatca ccgtcttaac cgttatggga gtcgccgggg ctaagtctaa gtgtagtacc 300
gttgggattc aaggaatcgc ttgggccttc ggtggcatga tcttcgcctt cgtttactgc 360
accgctggca tctcaggggg acacataaac ccggcggtga catttgggct gtttttggcg 420
aggaagtgtg cgttgcccag ggcgattttc tacatcgtga tgcaatgctt ggggtgtatt 480
tgtggcgctg gcgtggtgaa cggtttcgag gggaaaacat atacggtgcg ttgaatggcg 540
g 541

<210> 5315
<211> 419
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071f05d1

<400> 5315

aaatgactct ggggttatatt ttgattttgc aaattaaatt acacaatcac agccgtacat 60
tacacatgag ttgggccttt tccaacttaa aagccgagga taacattggc ccatgacgag 120
acacatgccc cacctaataa tcataatttt acatctttac atacaaaata caaagacttt 180
tttttttaaa aagaagaaaa gagataaacc gatcatttta atgaaatgaa accaaaaccc 240

acaaacattg gcttgatttt tgggtggtggt gttggcccca acttgattaa acatgaaccg 300
 tttgattgaa tcacttggac ttgaaggga tggccctgat tacaacctgg tggtaaagtg 360
 ctgcaagaac tgcaccgatg aatggtccca cccaaaagat ccagtgttca tcccaacca 419

<210> 5316

<211> 518

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220071f06a1

<400> 5316

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 gtgtcgttgg gagcgaacaa gttccccgag agacagccga ttgggacggc ggcgcagagc 120
 caagacgacg gcaaggacta ccaggagccg gcgccggcgc cgctggttga cccgacggag 180
 ttacgtcat ggtcgtttta cagagcaggg atagcagagt ttgtggccac ttttctgttt 240
 ctctacatca ccgtcttaac cgttatggga gtcgccgggg ctaagtctaa gtgtagtacc 300
 gttgggattc aaggaatcgc ttgggccttc ggtggcatga tcttcgccct cgtttactgc 360
 accgctggca tctcaggggg acacataaac ccggcggtga catttggggt gtttttggcg 420
 aggaagtgtg cgttgcccag ggcgattttc tacatcgtga tgcaatgctt ggggtctata 480
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<210> 5317

<211> 393

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220071f06d1

<400> 5317

atatgactct ggggttattt ttgattttgc aaattaaatt acacaatcac agccgtacat 60
 tacacatgag ttgggccttt tccaacttaa aagccgagga taacattggc ccatgacgcg 120
 acacatgcac cacctaataa tcataatttt acatttttac atacaaaata caaagacttt 180
 aatttttaaa aagaagaaaa gagataaaca gatcatctta atgaaatgaa accaaaaccc 240
 acaaacattg gcttgatttt tgttgggtgtt gttgttccca acttgattaa gcatgaaccg 300

tttgattgaa tcacttggac ttgaaggga tggccctgat taccacctgg tggtaaagtg 360
ctgcaagagc tgcaccgatg aatggtccca ccc 393

<210> 5318
<211> 611
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071f07a1

<400> 5318

gttcttctct tcctcactcc ttttttcaaa cctcgaaacc aaacaagggt tttcttctct 60
ttccccccct cctgattctc cattttccct ctatctcaca ctccaatttt ctccctcctt 120
tcatattgct tttcttctct gattctcacc aaaaccattt tttcgtcttc tgtattcaag 180
ttccctggaa ttctcaattc gggggcgtgt tcgtttctac acatgtttgg atgaagagac 240
gcaacaggac cctatgtgtt gttgttctcc ggtaccgatg attgtttatg gctgaaagct 300
gctgacttgg ttactgggtt ctgctgaccc aagcggtcga agaagggtag ggggaggaat 360
cggagtgatc gctgaaaaag tgggggttag ggtttttggc ggggtctgct caaatggctt 420
atgcactgga gttgctgaga ccacagctat gcattgacag ccttatggac aatctggctg 480
cccaagatat ttgcagccat tgccattgga attgctctcc tagaaaggct cctaccgctc 540
ccttgctgct gtgcacctt tcttttgctt ttggccttcc agtccaattg ttgcccttgg 600
attttttgggt t 611

<210> 5319
<211> 429
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071f07d1

<400> 5319

gcgctgactg tcctttgttc tttttttttt tttttttcac ttaaaggata tgatatgaca 60
atcttctctc tctgtttaac aaataaaaac gttgaaagtt taatacattt gaccatgata 120
aaatttgtaa ggaaaaaat atatcaaaca tgagacatag aagaagaaaa acttcacaat 180
ttttttgaca gaatgctaata tggatacgga caatcctaag aactgtgttt ttgaacaata 240

acacttgaat gtgaatctgc ttttacaatg tccaaggcac tagctatattt taggatacta 300
aacatattcg aggggaacct atttagagca cactattagt atacacttaa cggaacata 360
gcctcttcaa atattatact gcttgcata t cattggctg gaatccatag cctttgattc 420
atcttaacc 429

<210> 5320
<211> 576
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220071f08a1

<400> 5320

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atggccacta caacacaact tcacttacc cctggattca gattccatcc aacagatgaa 120
gaactcgtca tccactacct ttgtcgcaaa tgcgcttcgc aacatatcgc gggtcccata 180
atcgccgaaa ttgatctgta caagtacgac ccttgggacc ttccaggaat ggctttgtac 240
ggagagaaa agtggtatatt tttcacgccg agggaccgca agtaccgaa cggttcgcgg 300
ccgaaccggt ccgcgggaac cgggtactgg aaggcaaccg gagcggataa accagttggt 360
aaaccgaaac cggttgggat caagaaagcg ttggttttta cgctgganaa gcgccaagg 420
gagagaaaac taactggatc atgcacgagt atcgtcttgc agacgtggat cgttccgttc 480
gcaaaaagaa cagcttaagg ctggatgact ggggtgctgtg ccgaatttac aacatgaaag 540
gtgcaatttg aaaagcaaca acctaccacc accgag 576

<210> 5321
<211> 287
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071f08d1

<400> 5321

ctcttgtcta ttattaaatt tgcaacagac cccttatccc aacaaaaaa caaccaacac 60
gaaaaatttc ccaccgggac atacttaacc ccaacaaggg gcggccattt taaacaaacg 120

cgtacccaaa caataacaaa taaatccgcc cctgctcaaa cacagaccaa ggctgtgggt 180
 cccccagtc acctttaaaa ttccacgggg aaccccccca gagcatacta tttttagaca 240
 cccaccggaa acatagcctc ctcaaaaagg cccctgcttg caaaacc 287

<210> 5322
 <211> 349
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071f09a1

<400> 5322

gaggacaaca ctaacatgca ttgatttaaa caacttctca gctagcccaa tttgatggat 60
 cagtattacc accgtcatat ctgccaatgt ctgaatcact tgctgaccct ccggcaacat 120
 tttgcgata taattgccag aaaccgtcgc aagaccgacc aatagttggc ggaggaagt 180
 tgagccttgt gacaaaggct gttccacctt ggacataaat atgaccaagt ggttgccatg 240
 gatgctttca atactgacag gcgactggag ggggaattaa cactgcagt tagtagaagg 300
 aatagctgat tcttgaact atcgttggag atttgaggag gcacgatta 349

<210> 5323
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071f09d1

<400> 5323

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 agaggaatca tagcagtaca atgggtcaag gagcataggc gctatattgt gtacacagat 120
 taccacgctg agatcgact tgagacataa ctgcctttca gactcgatct ctgtttatga 180
 cgcgtaatgt agtgagggga aatggctccc ttcatgcagt aaacatcact ggtcacacca 240
 acctgggttaa gtgatagtct gttcagtatt gctgaatatg cccattagag aggagaaact 300
 gctcaatggg agcagacaac tgctctgccc attgccaagg atgtcctagt gggacacatg 360
 ctgctaccat ctctgccagg ggcgcatgtg ggattgccac tactactgca ctggctattc 420
 ccggatg 427

<210> 5324
<211> 239
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071f10a1

<400> 5324

gcggacaaca ctaacatgca tttattttaa caacttctca catagcctca ttttatggct 60
gactattccc agcgtcatat ctgccaatgt ctgagacact tgctgacct ccaagctaca 120
tatttcgaac aatgaatgtc gtaaaccgac gtaggacact tcaagagttg atggaggaag 180
tgttaccctt ggctcaaagc ctgctacatc ttggacttac atgaggccaa gtttttgcc 239

<210> 5325
<211> 410
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071f10d1

<400> 5325

gtactcaatt aatgtgtcac tcaataaatt gattagcatt ttcacatgaa gccgtatata 60
tgaggaatca tagcaataca gaggtttaag gggcattgga gctatgatat attcaaagat 120
tactatgtaa agattgtagt tgagacataa cttcctttct gacttgatct ctctttatct 180
tccctattgt agtgagtgga aatggccttg tccatacagt aaacattttt ggaatcttaa 240
acctgcttaa atgattttct atacagtatt gctgaatatt ctctctagat aggagaaaact 300
cttcatttga agcagacaac tgctctgacc attgccaatt ttctcttaga tggatacatg 360
ctgctaccat ctctgtcagg cgagcatctg ggattccac aacaacaaca 410

<210> 5326
<211> 578
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071f11a1

<400> 5326

atcggaatcc tcccaccacc accccttggt ggcgcgcctc aacaacggcg ccttcgggtg 60

ctgccccggct tccgtgatcg ccgtgcagcg cgagtggcag atgaagaacc tccggcaacc 120
ggaccacttc tacttcaacg acctcaagaa gggactcctt cactccccga ccatcatcaa 180
gaacctcgtc aacgccgaac acgtggacga gatctccctc gtcgacaacg cctccaccgc 240
caccgccatc gtcctccagc aagccgcctg ggccttccag gaagcaaaat tccagaaagg 300
cgacgtggtc ctctgtctcc actacgccta cggcgccgtc aagaaagcca tcgaggccta 360
cgtgggtgcgc gccggaggca ccgttatcga agtccccctc cccttccccg tcacctccaa 420
cgacgacgta gtcaacgaat tccgaatagc ccttgagagg ggcaagtccc gaggcaacag 480
aattecgтта gcggttatcg accacgtgac ttccatgccc agcgtgggtca tccccgttta 540
ggacttggtt aaaatctgca gagaggaggg tgtggagc 578

<210> 5327
<211> 401
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071f11d1

<400> 5327

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gggcaaaata gcgcaatcag caaaggggcaa actcaacatt tgcaaatagt atcccacata 120
taaaatgggc caatttgтта ttggggagtt aattaaaact aagagcagag cataggctac 180
cccaatttca agccgaaaga agagccccag taaaccatt ttgcacaagt tgattaaccg 240
gattcctgaa cttataatag tcctcaacct tggttgaaac ctgacgagaa attcgggcat 300
acgcagtaac agagcccttt tccccaccac gaaaataaat tgggacttca acattaaatt 360
catccctcaa acgggtccta agcttttgag cctcagaggg a 401

<210> 5328
<211> 222
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071f12a1

<400> 5328

agcacctgc taacgccatc atcttttgtc ggcgcgtcga acctacgcat gctattgatg 60

ctgacctgat tatgggagct ctcaactata ctggtgtgta tagaccaatg tatggcaacc 120
gcaccactat tactttggcc acgttacaac aggactcata cagtctcgca ctattagaag 180
gagcctgggc tgcacgaac acttggaac gatctgcctc gc 222

<210> 5329
<211> 334
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071f12d1

<400> 5329

aaacaacaaa tgtccactta aatacttgga tatatagacg gggaaagggc caacaaaccg 60
ggcaaaatac ccccatcaaa aaaaaggga ctcaacattt gcaaaaagtc ccccatatat 120
aaaatggacc aataagttat tggggagcaa attaaaacta agagcagagc attggctacc 180
ccaatttcaa gcccaaagaa gagcacaagg gaacccatct ggcacaagtt gataaaccgg 240
attcctgaac ttataataga cctcaaccct gttggaaacc cgacaagaaa ttcgcgcata 300
cccaataaca gaggccccct tccccaccac aaaa 334

<210> 5330
<211> 544
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071g01a1

<400> 5330

agaagcaata agatgaaaat gatagtgcctt gttttgtttg ttgctacagt tttggtagca 60
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gggcaataca gcaatgaggt ggcattgtgc agttggaggc ttggcgtgga agcaaacaaac 180
gtagtcaagt ggcaaaactgt tctgcagct tgcggagagt acatagctga ctacgttcta 240
ggagaccaat atagatcaga ttccaaaaca gttaaccaac aagcttattt ctatgctaaa 300
tccctcaaac tcaccaacaa agatgtcttt gtcttggacg ttgacgacac tactctctct 360
aatctccagt attttgctaa ccatggattt ggtgtggaac cacacaatac gacggcgttt 420
aagaactggg ttcttgatgg cgaggcattc gcactgccag agactcttaa aatgtacaac 480

aaactgttgg ctctcggcat caagattgta ttcttatcag aaagaccact gagtctaggg 540
gatg 544

<210> 5331
<211> 506
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220071g01d1

<400> 5331

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gccctacat gactaagtaa taatactcag gatcttattt catagaaatt aaggagcaac 120
ttagaggctt gatttgagag cttaatcata gtacaaggga ttaggcagct taaaagtctt 180
agtccttttg ttgcttccca ggaggtcact ccattggtct ccaacgtttc caatgattct 240
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agagtactca gatggatccc tgagaattaa cttctcccat gtgttgaatc caacctcctt 360
taagttcttg gctgttacct cccctagact cagtggctct tctgataaga atacaatctt 420
gatgccgaga gccaacagtt tgttgtacct tntaagagtc tctggcagtg cgaatgcctc 480
gccatcaaga acccagntct taaacg 506

<210> 5332
<211> 550
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071g02a1

<400> 5332

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ggagacaggc tcagctcaat ccccaaactg cccctctact tcgggcagcg ctgcccagacc 180
tgccccaaga ccttgtttct gagatgatga gacccccctt gaggtcttat gaccctaact 240
tcatccaaga cccactgtc tataggttga atgaagctgt tatgcatttt ggggagagca 300
tcaaagaaat aatcaatgag gagtttggtg atgggatcat gtcagcaata gatttctact 360

gctcggttga taaaattaa ggagtagatg ggaaggatcg tgtggtattg acatttgatg 420
 ggaaatattt gccacattca gaacagaaat ctgagcacat ggtttcaaga acaaggccac 480
 tgggaaaaca gtgagtatct tcattggagg accaactacg caatcttcaa caccagtcta 540
 cctgcacatg 550

<210> 5333
 <211> 542
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071g02d1

<400> 5333

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 tgaaatatcc aaagccataa aacattgtat aaatatgcat ggccaactac tttttattat 120
 ttataaatct taaacacttt tatttttctc ttccaatggt tttctataga caacacaaaa 180
 tagcactgat caaatacaac ttgtggttgt tacagatcaa tgataattca tgtgcaggta 240
 gactggtgtt gaagattgcg tagttggtcc tccaatgaag atactcactg ttttcccagt 300
 ggcccttggtc ttgaaacat gtgctcagat ttctgttctg aatgtggcaa atatttccca 360
 tcaaattgtca ataccacacg atccttccca tctactcctt taattttatc aaccgagcag 420
 tagaaatcta ttgctgacat gatcccatca ccaaactcct cattgattat ttctttgatg 480
 ctctccccaa aatgcataac agcttcattc aacctataga cagtgggggc ttggatgaaa 540
 ta 542

<210> 5334
 <211> 665
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220071g03a1

<400> 5334

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tttcttctca ataattatta tttgtatttg taaacacaca ctatcaaagc aaatgggggtg 180
 ctcatctccc ggggtgaacg cactttacga ctccgtgaac ggcggagggtg atgtttggat 240
 caacgagaac cgtttccgca tcgtgcgcca gctcggagaa ggtggcttcg cctacgtcta 300
 cctcgtcaag gaggtcccg acgactccgc cgccgctggc ctcgccaaga agtcaaagg 360
 ctctctcat ctctccgatg atggaactta tgctatgaaa aaggctctca ttcagaacaa 420
 tgaacagctg gagttgggtca gggaggagat ccgtgtttca tctgtgtca atcatcccaa 480
 tctgctcccg cttcttgagc atgcaatcat ttctgtcaag cctacccatg aaacatcttg 540
 gaaccatgaa gcatatttat tgggtccagt tcatttggat ggaacattgc tagacaattg 600
 ccaaataatg aaagccaaga aagaattcta ttccacccta gatgtgcttc aaatatttcg 660
 tcagc 665

<210> 5335
 <211> 567
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071g03d1
 <400> 5335

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 cataaattac aagaaacaaa attatgtaga aatgacaaac aatactttaa agccaacgcc 120
 cgactaccta gactaccacc aaaatcgaag atacatataa atatatgggtt aactccgtca 180
 ggcgaggaat tgctattgct tttctatcca ttaacatata actggacggc aaatgcacac 240
 gaattttttt aaacgactgc aacataaaaa tctcaagccc cacttctcac ttccatagta 300
 actcattgag agaacttcgc aactaacttg tcaacatgga taatgatatc atctatcctg 360
 ggccgcatgg aagccgttgg ctgaagcatc catgacacga actgatgaag agcttctgga 420
 tatggaggct tgggtcctgc tggccatttg acctgtgcat ttacaatagc caattgcagg 480
 cttccaccag actctccaag tgcatttca aatggagata ccccatatc tattgcatat 540
 aatgtgcatc ctagcgacca aatgtca 567

<210> 5336
 <211> 556
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220071g04a1

<400> 5336

cttttgaaga ttgtattaca tgggctaggc taaagtttga agattatattt gctaaccgag 60
taaagcaatt aatttatact tttcccgaag atgctgcaac tagtactgga gctcctttct 120
ggctctgcacc aaaacggttc cctcatcca ctgcaattct catcctctga tctgggtcat 180
cttctgtttt tgatggcagc ttctatatta cgagcagaaa catttggtat tcctattcct 240
gactgggtga agcatcctaa gaagttggct gaagctgttg atagagtgat agtacctgac 300
tttcagccta agaaagatgc gaaaatagtg acagatgaaa aggccaccag tctctcatct 360
gcgtctatag atgatgcagc tgtgattaat gatttaatcg tcaagttaga ggggtgccgg 420
acaaagctgc aaccagagtt caggatgaaa ccagttcagt ttgagaagga tgatgataca 480
aactaccata tggacctgat agctgggctt gcaacatgan ggcacggtac tacagcatc 540
ctgaagtgac aagctg 556

<210> 5337

<211> 347

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220071g04d1

<400> 5337

aacaaacaag gaacgaaagt tgcttttcaa ttcatatatg aaaggggata tgggcaacag 60
gggccccttg ggggtacccc ttttgaatat gaagctggga gggccaacat tttttggttt 120
ttaaactaaa aataagtctc ggccccccct ggtggggcga ccaccacccc cttaacggaa 180
ataggggggtt ttttggggga tggcaatggc attatcctca tcctcctcac aggcaacaac 240
aacatccaag tgaccacggt aagaaggttt ttccaccttg gcccttttcc taacccaaaac 300
caccattttt ttggccatgc gttttctgtg cctaggggaac atgcttt 347

<210> 5338

<211> 634

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071g05a1

<400> 5338

tcttatacag ccttctcaat cagtaaacia taangggtan nggcgaaaga ccaaaagaag 60
aaaaagaaga aaaagaaaaa aaaaaaaaaa atttttaaaa tttaagtata ttaaataatta 120
ttaaaaattg ggtaatttga ttttattatt aaaatattat aatatataat atatatatat 180
aatatatcta aatcagatga cattaatata aaaaaatttg gcggagggtgc agatataaca 240
caggctttga caaaagcttg ggaagaggca tgcgcagcaa caagtgaag caaaattgtg 300
attcctgggtg ggtcatacaa gatggaagca gttgatttaa aaggctccttg catgggtccc 360
attgaaattc agtttgatgg cacacttcaa gcaccggctg acccgaatgc actcgacggg 420
gctgatgaat ggctcaaagt acaacatggt aactttttta ccttatcagg taaaagtgtt 480
tttgatggtc aacgtgcaac tgcttgaaa caaatgatt gtggaactaa caagaattgc 540
aagaaacgtt ccaagaattt tngtttcaat ttccctgaca attctatggt ctcgacata 600
acttctaaag atgcaaaaac tttcatgtaa atgt 634

<210> 5339
<211> 366
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071g05d1

<400> 5339

aggaaaaaaa aagggaatct tatatatgct cttgcacaag ggtttcgtat tgaataaatg 60
cccttaaaca ttgacaacgt aagtatatac aaatgcttat tcactataga cttcaaatag 120
gcctcattct caccttacat atttcaaaaa aaaaaatctg gtcaaggaga atgtgtcaac 180
ccaagtcttt taagctggac atgggcaagc aggagctttt cctgtaacta tgggcttgac 240
attagcacat ttagcaacta ttggagctcc attgaatgta aaaacaacgt tatttaattc 300
cacatcctca catgggacac ccttgctaca tataaaagac actccttcct tggtttttga 360
agggcc 366

<210> 5340

<211> 622
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071g06a1

<400> 5340

tgtctttttc tgggtgggtca cgtcgnagag cagtgaannn ntnnnncnna anaacaaaaa 60
aaaanaaaaa aaaaaaaaaa aaaaaaaaaa aatanaaaat ttannaaaaa aaaaaaaaaa 120
taaaaaanaa tagganaana attaattgttt tattcttatt gctagctatt tctagtacaa 180
ctcaatcggg tgacattaat ataaaaaaat ttggcggagg tgcagatata acacaggctt 240
tgacaaaagc ttgggaagag gcatgcgcag caacaagtgc aagcaaaatt gtgattcctg 300
gtgggtcata caagatggaa gcagttgatt taaaagggtcc ttgcatgggt cccattgaaa 360
ttcagtttga tggcacactt caagcaccgg ctgaccggaa tgcactcgac ggggctgatg 420
aatggctcaa agtacaacat gttaactttt ttaccttatt aggtaaagggt gtttttgatg 480
gtcaagggtgc aactgcttgg aaacaaaatg attgtggaac taacaagaat tgcaaganac 540
gttccaagaa ttttggtttc aatttcctgg acaattctat gggttcgggac ataacttcta 600
aggattagca aaactttcat gt 622

<210> 5341
<211> 409
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071g06d1

<400> 5341

agtaaataga aaggcaatct tatatatgct cttgcacaag gctttcgtat tgaataaatg 60
cccttaaaca ttgacaacgt aagtatatac aaatgcttat tcactataga cttcaaatag 120
tcctcctcct caccttacat atctacaaaa gaaaaatctg gtcaaggaga atgtgtcaac 180
ccaagtcttt taagctgtac atgtgcaagc aggagctttt cctggaacta tgggcttgac 240
attagcacat ttagcaacta ttggagctcc attgaatgta agagcaacgt tatttagttc 300
cacattctca catggtacac ccttgctaca tataagagtc actccttcct tgggttttga 360
agtgcctga atattcttga aggtaacctt gcttatcttt atttttgat 409

<210> 5342
<211> 449
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071g07a1

<400> 5342

gattaaaagg ccggacttat ggttgccatt tactttcttg gtagtagatt gatgagcttt 60
ttcgtgaaag tgtgttctga gccagcgtca ctactatctt tcattttttt aaaatattgt 120
atgttacgtg cttgtacctt tgagtcttca taatttccat gtttttttac tttagggttg 180
aggctctctc aagttattag catgtaatat ctctgccat tggtgtttat cttatataaa 240
aatcttttgc agatttatgt tgttgcatga gaataattga tgaaacaaat caccaaactg 300
ccatggctgt taacattttt gaggaatatg tagaaagact tccccgtgtt gctgctgttg 360
gggatgtaat tgtgctttgt tgtgttgagg aatttctgat agtaacctct gtatgtagag 420
atatgtctgt ttgctgcggt tttctggtc 449

<210> 5343
<211> 400
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071g07d1

<400> 5343

gggaaaaaac atattaaaac cctgacatat ggcccagaaa acctttttta ccaaaattta 60
cccttggaag aaaaactggc catttaattt ggccatttac atttaacta ccggttttaa 120
aagccctgga agaaaacaaa aatggggttt ccaggaattt tatgggcatg agcgcctttt 180
atttttttta cccaaatata aatggatttt ttaggggtacc tataaacacg gcctacccca 240
aattggcttt aaaaaaatgg catggattcc ccaatatttt gggggcaaaa attttaaagg 300
gtctactggt ccaaacctca attttgggga cccaaaatgg cttgggacaa acccaaacc 360
ctgggggatt ttctggagca tcctttaccc catttacc 400

<210> 5344
<211> 559

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220071g08a1

<400> 5344

gattaaaagg ccggacttat ggctgccatt tactttcttg gtagtagatt gatgagcttt 60
ttcgtgaaag tgtgttctga gccagcgtca ctactatctt tcattttttt aaaatattgt 120
atgttacgtg cttgtacctt tgagtcttca taatttccat gtttttttac tttagggttg 180
agggtctctcc aagttattag catgtaatat ctctgccat tgttgtttat cttatataaa 240
aatcttttgc agatttatgt tgttgcatga gaataattga tgaaacaaat caccaaactg 300
ccatggctgt taacatctttt gaggaagtat tagaaagact tccccgtgtt gctgctgttg 360
gggatgtaat tgtgctttgt tgtgttgagg tatttctgat agtaacctct gtatgtagag 420
atatgtttgt ttgctgtggt tttctgggtc tttcttgact ctcggttttt nttttttttt 480
atatatacat gtttctcata ataaagactt aaaagagact ttaacattga ccactcaatg 540
tatatgcatt cataggcag 559

<210> 5345
<211> 283
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220071g08d1

<400> 5345

gggaaaaatc attttaaaaa cttggcatat ggacctgaaa acctttttta ccaaaaattt 60
cccttggaag aaaaactgga catttaaatt ggccatttac atttaaacca ccggttttaa 120
aaacctgga aaaaaacaaa aaatgggttt ccaggatttt tttggccctg agcccatatt 180
atttttttaa ccaaaaaata aggggatttt ctagggtacc cataaacacg ttctacccca 240
tattggcttt aaaaaaagg catgggactc cccacatttt ggg 283

<210> 5346
<211> 376
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071g09a1

<400> 5346

gatttttcgtg gagtggaaaca gaggggaact tgagagtttc ttgattgaaa ttaccgccga 60
tattttttaa gtgaaagatg aagatggtga aggggttttg gtggataaga ttttggataa 120
gactgggatg aaggggaccg ggaaatggac ggtgcagcag gcggcagagc tttcgatagc 180
cgcgcccacg attgcggcgt cgttggattg ccggtacttg agtgggttga aggaggagag 240
ggagagtgcc gcggcgggtgc tgaaggaagc ggggttgagt gatgaattgg ggagggtaaa 300
tgtgagtggg gtggatcaga agaaagttga ttgaatgggg cgatcaaagg tgcagaatgg 360
ctctgcttat catctt 376

<210> 5347

<211> 411

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220071g09d1

<400> 5347

aatgatattc aatgatgaat ccaaccaatt gcaaaactat tacagcacat gtatcagtct 60
cttgggatat ctaaaagtaa gttaatcatt aaaaaaatg ttcattgataa ccacttattc 120
accatacttc taccacaat caatgatagg ggtttcaagc tccatactcc aaaggattac 180
tcggtcactt ttgcagatcg aaattgttcc ttagtcctac cataatacac aggctccttg 240
cctgaaaaag tgatgaaatt ccagccaaaa gcagatcctc caactacata tgtcccttgt 300
gtctgagttt cttcaaccag ctgcttctgg aagccaggag ctggtggagt gagcttaatt 360
tcagatggcc gtgcaaata tttctctact tgactctgct tgccatgttg a 411

<210> 5348

<211> 586

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220071g10a1

<400> 5348

cccggcagca gagcctggga aagctgattg ggaattggca ttggtagaga ctgctagcaa 60

tttgtcaaag cagaaggcag ctttaggtgg tgggttgat cctctattgt tgactggtat 120
 gtatgatcaa ggaatgggga agcagcatgt cagcactacc caactgagtg gtgggagtg 180
 aagcagtgtg gcattgccgg gaccagggaa gactccggtt ttggctctcc cgcgccaga 240
 tggatctgtg cagccgggta atcaggatcc atttgctgca tcgctgagtg ttccaccacc 300
 atcctatgtg caaatggctg atatggagaa gaagcagcac ttgcttggtc aggagcagca 360
 ggtgtggcat cagtatgcaa gggatgggat gcaaggtaaa tctagcttgg ccaaactgaa 420
 tggcgctgga tactatgccg gaggtcctat gcccatgatg ccttatggga tgccccag 480
 taatggaatg ggaccttcaa ccgggtatta tcacactcct tactgatacc ccttttcact 540
 tttttctttg ngtcatatct atagggtcgtt tcgtttatct tttact 586

<210> 5349
 <211> 371
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220071g11a1

<400> 5349

cgaggaaggc ctggcttggt ttggttgttt ttaacacgcc cgtgaagtgt tgaggattta 60
 agaccgtaca gaacattggt ttacctaaat ggcagtgtaa gcgaatgagc attctgtgta 120
 caaataatcg ataaactatc tagctcaaag gtgggaacac aacttggtat ctacctattg 180
 aaaatactca taggccacag gatcttgaaa ggcctgagtg catattaaac aatgactgtc 240
 catcttttct gaatttatct cagatttaat tgaaggattg caaacaatgg tgatcatcat 300
 tgacatgccc atcgggtgat acaccaggtc ctaccacttg atgaacaaag tactgctcgc 360
 aactggaca t 371

<210> 5350
 <211> 160
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220071g11d1

<400> 5350

aaaaaataaa aattttatct cctaataata taaaccacca aaaacatgga aacccaaaat 60

aagtaaaatg aaaaccaccg ccaaaaaaaaa ccaacaaaaa aaaaaaaccc acctaaaggc 120
 aaaaaaaaaat actgtgacga aaaaacccca cctggataaa 160

<210> 5351
 <211> 305
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220071g12a1

<400> 5351

ctcgagccgc aaatttatag cgtgtttcgt gaaggaggct ccatggccac agaaggagaa 60
 ggctttgttg cgtagctaata tggcaatgtc ttaaattggt ttaatgtttt cctgctactt 120
 ttcttttgct tattcaaaat ggaattctag ctttgaggtc aaaatactct tactcttacg 180
 gctgataact aggttgcaat tgcaggacaa taaggcctca tttgtcaggc cagtgtttgt 240
 tttttcaagt ttagaagcag cccttacatc ttacgaattt attcatattt ttattttcat 300
 atggt 305

<210> 5352
 <211> 305
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220071g12d1

<400> 5352

accatatgaa aataaaaata tgaataaatt cgtaagatgt aagggtgct tctaaacttg 60
 aaaaaacaaa cactggcctg acaaatgagg ctttattgtc ctgcaattgc aacctagtta 120
 tcagccgtaa gagtaagagt attttgacct caaagctaga attccatttt gaataagcaa 180
 aagaaaagta gcaggaaaac attaaaacaa ttttaagacat tgccaattag ctacgcaaca 240
 aagccttctc cttctgtggc catggagcct ctttcacgaa acacgctata aatttgcggc 300
 tcgag 305

<210> 5353
 <211> 637
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071h01a1

<400> 5353

gaattctggt gatcgactga aacntnnnnn ntncnnnnn ncnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnttttnnn nttnnnnnnt nntttgtttt ttttntggc gnttaatgcg 120
taagttataa tgtttctgac aaacatgatt gtttaatcct gttattatcg atgatacttt 180
aaatattggt tagacgattc aatagtatat ttttgagac ctttttatga agttcatgca 240
agttgttaga aaattccttt ctacaattag aatttgaaat ggtaatagtt gttattcctt 300
atagtgetta ttctatggga gaaccaaatt ctcatctgtg gctactgact tgttgaattt 360
tgggcagact aacatagcat gtaaataaat agatgacaaa agaataaat ttcttgtaag 420
gatattatcc tatcacacta tcttcgctt aggacaatat tcttcagatg aaactttaaa 480
tattcttacc ttcagatgat attgtcctat gacttggttg atttcttgta aagatgatac 540
ttcaaataatt tttcagatgg attcaatagc aaaattctgg tggtttgcac atgaagttca 600
tgaaagttgt tagaaaattc ttttctacta ttagaatt 637

<210> 5354

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220071h01d1

<400> 5354

agtagcaaac agtccttacc gcttgagggt tgtataaacc tgaatttttg cagaacagat 60
tgactttggt gagagatctt atctcaaaaa atcaacatta ggaaaaagaa tagtcctatt 120
gtgaactgta agatacctcc cctactttct ttctttttta cattggtagg aaaaacaccc 180
atttttgcaa acaatataat tagtccacca acataatcat taatcaaaga atatatecta 240
cactagctat atattatatt atgtgcaatg atttagctca cttcactgct gtattgttgg 300
ggtttctgaa cctttttgct ggataaagtt agatttgaac atcaacacgg gttctgatgg 360
gcttgagctt aattcctaaa ctctctgggg agaggagttc tgggtgctatg catgaatggc 420
tagtggggct tgctggattt gaaccgttgc ttgatgagga agcagcatgt gtttgtct 478

<210> 5355
 <211> 523
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220071h02a1

 <400> 5355

gtggagacca gcttgttcca tattatgctg acattcttgg agccattttg ccttgtatag 60
 cagataaaga agagaaaatt agagttgttg ctctgtgaaac caatgaagag ctacgtgccc 120
 tcaaggcaga tccagctgaa gcgtttgatg taggagcaat cctctccatt gccaggaggc 180
 aattatctag tgaattggag gctactcgaa ttgaagcttt gcaactggata tccacccttt 240
 taaacaatta tcgtactgag gttttgcaat ttctgaatga catatttgac actctgctca 300
 aggcactttc agatccatct gatgagggtt ttctttagt tcttgatgtt catgcatgca 360
 ttgcaaaaga ctctcagcac ttctggcaac ttgttgcttt cctggtgcac aatttccggg 420
 tagacaattc ccttttggag aagcgtggtc ctttgataat tcgtcgactn tgtgtgcttt 480
 tgaatgctga gagagtctac cgtgaacttt ctacaatact gga 523

<210> 5356
 <211> 560
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220071h02d1

 <400> 5356

gccagctacc ggancgctct cgattattcc cggtcgacgc gctcacctag tcgcggccgc 60
 cctttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttgggttttt 120
 tttgggtttt ttattttttt tttttaaaaa aaacccaaaa ccccatata aaaaaaaaaa 180
 accacccaaa accccaccgg caaaaacacc aaccacagcc gcccaaaaaa aaaaaaaagc 240
 cccacccaaa aaaaaaaacc cccccccccc ccccggggaa caaaaaaaa aaaaaccccc 300
 ccgggggggg ggtgtctctt ccccccccaa aaaaaaaaac cccccccccc cccccccgt 360
 ggggggggcaa aaaacccccc cccccccccc cccgcgcgaa aaaaaaaaac aataaaccca 420

aaaaatcccc cccccaaaag gggggggccc acaaaaaaaaa cccccccggg ggggggaaaa 480
 aaaaaaaact tccccccccc cccccctcca gaaaaagaaa gggccaccaa caacaacccc 540
 cccccccaca gggggggggg 560

<210> 5357
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071h03a1

<400> 5357

gcgaaatcag gtctacgaaa attacctttt tgacacctga ttccagttct ttttcttctc 60
 aataattatt atttgcatta gtcaacacac actatcaaag caaacggggt gctcattctc 120
 cgggttgaac gactctacg actccgtgaa cggctgaggt gatgtctgga tcaacgagaa 180
 ccgtttccgc atcgtgcgcc agctcggaga aggtggcttc gcctacgtct acctcgtcaa 240
 ggaggctccc gacgactcca gcgccgctgg cctcgtcatg aagctcaa at gtcctctca 300
 tctctccgat gatggaactg atgctatgaa acaggctctc attcagaaca ctgaacagct 360
 ggagttggtc acggaggaga tccgcgtgac atcactgctc aatcatccca atctgctccc 420
 gcttcttgag catgcaatca tttctgtcaa gcctacccat gaaacatctt ggaacca 477

<210> 5358
 <211> 530
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220071h03d1

<400> 5358

aaataaatga tattccattt atgctgataa attctgaaga cacagggaga ttggccattt 60
 cataaattac aagaaacaaa attatgtaaa aatgacaaac aatacttta agccaacgcc 120
 cgactaccta gactaccacc aaaatcgaag atccatataa atatatgggt aactccgtca 180
 ggcgaggaat tgctattgct tttctatcca ttaacatata actggacggc aaatgcacac 240
 gaattttttt aaacgactgc aacataaaaa tctcaagccc cacttctcac ttgcatagta 300
 actcattgag agaacttcgc aactaacttg tcaacatgga taatgatatc atctatcctg 360

ggccgcatgg aagccgttgg ctgaagcatc catgacacga actgatgaag agcttctgga 420
tatggaggct tgggtcctgc tggccatttg acctgtgcat ttacaatagc caattgcagg 480
cttccaccag actctncaag tgcattttca aatggagata ccccatatcat 530

<210> 5359
<211> 633
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071h04a1
<400> 5359

tgtattacat gtgtagtcag tcagcatacc aatgaanaat aaacaaaaaa accnanaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaat tttaaaaatt taaaannntna aatnaaanatt 120
ctattattat atatggcttc ttcaccttcc tcagaaaaca aaaacctaga gggagtagct 180
gggtggtgccg gagagaaacc cattccactt ggtgagaacg ttctgcagaa gcatgctgca 240
ttctttgact tgaataaaga tgggtgtcatc taccatggg agacttttaa agggttgcgt 300
gaaatcggga ctgggggtttt gctgtccggt ggaggtgcta ttttcatcaa tgtgtttctc 360
agtcagagta ctctgtcccgg aaagtttcca tctatacttt ttccaattga aattaaaaat 420
atccaacgcg gcaaacacgg cagtgcact ggagtctacg atactgaagg aaggtttgta 480
ccttcaaaat ttgaagaaat tttaacaag catgcacata cacatccaaa tgctttgaca 540
tatgatgagt taacggagat gataaaggca aatagagagc ctaaagattt ctcaggaaag 600
attggtagtg tggttgaaat gaaaattctt tac 633

<210> 5360
<211> 500
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220071h04d1
<400> 5360

ataaaattgt attctttatt ttactgtata cgtgcttttc ggatgaattc aaacatgata 60
gatgacacat aagtttgact tgacatatac attattgatg aacataaaaa taaacagaca 120

ctttgaatat tgtgactaac ttactagcat ataaattcat aaaaataacc aattttgctg 180
 agatcgacaa gtaacttctt cttttcacat acgtgtctga aaaatattac tacttctctt 240
 tgcctgaaga gtgttggttt ttcagttgtt caaataaact tccatcgtaa acacctcgga 300
 ttgtttcttt ctgcagtaat ccactcttat ctttagcaag ttgttaaaga attttccatt 360
 caaccacact accaatcctt cctgagaaat ctttaggctc tctatttgcc tttatcatct 420
 ccgttaactc atcatatgtc aaagcatttg gatgtgtatg tgcattgctg ttaaaaattt 480
 cttaaatttt gaggtacaaa 500

<210> 5361
 <211> 601
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220071h05a1

<400> 5361
 atgcgtgcgt cagatcagaa natcagatac nnggtntaaa anccanattg naagctnatg 60
 nacgataaag tgtgnagatt aattattggt attgtgttat atgtttttta tgatttctta 120
 tgtatgtatt tttttattat ataggggtgtt atggaatttt ttttaattat tgtttgggtt 180
 tgtgaggaga gcttgggtgc tgctctgaac gcaaattttc aagatagcta tgggtgttgt 240
 atattttttt gtgaagaaga attagtgagc ataatgtttt ctgaaagatt gggggcagac 300
 gaatctcatt gtcaagattt acagagtttg agtgtgtcaa agcgacttgt gaggagtgtt 360
 agccagaagt ggaggaagaa gagtaacagg aattctgggg aagaagctga cgatgtaaat 420
 ggagtttctt taagatgctt aaatctgtat ggacgaagtg ggggctgcaa ggtaggtgct 480
 gacactgggtg atgatttttg cgattcaagc agtagaagga gatctagtgc cagtgcagaa 540
 ggaaagggat ataagccgat ttgtggcca gacgaaactg ctgtggattg cttttcatat 600
 g 601

<210> 5362
 <211> 507
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071h05d1

<400> 5362

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttgggtttttt 60
tttttttttt ttattttttt tttttttttt tttttttttg atttggtata tttttttttg 120
gggaaaaaaaa attttatggg ggggggggaaa aatgtaaaaa aagaggggcg tgaaaaaaaa 180
aaaactgcga aactggcttc aaaaaaatcc cccttccaaa ttatttgggg aaaaaaaaaa 240
aggggggttc ccgggtgggg gggcccaaaa aaaaaggggg gggacactaa aatttttgg 300
ggaaacaccc ccccccgaag ggtctctggg ggggcgaccc cccccagatt tggatcaca 360
caaaaaaacc cccctcgaaa aaaaaaaaaag accccggaaa aaatgaggcc cggggggctc 420
ttttccccc cgaaaaaagg gggaaaaccc cactcccgg ccatcttttt tgtccaatcc 480
cccccaaaa aattgtgttt tttttac 507

<210> 5363

<211> 618

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220071h06a1

<400> 5363

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naagaaaaaa aattttaaaa ttttaaaaaa angaaaagaa taaaaatggg aatttttgtt 120
atttttattt aatattaaca tgatgaccct tagatcacag ccaccatgga gtgattctcc 180
ggttacacaa tccacgaacc tactcttca ctttccgttg atgctcaggc tctgcagaac 240
cagatagatg agcttgagc gttttctgac tctctgctc catcagtaac aagggtcttg 300
tatactgaca aggatgtttt aggtcgagg tatgtaaaaa cccagatgga acttgctgg 360
ctatctgtga gagaggatgc tgttggtaac atatttggtc gttgggatgg cgttgaacct 420
gagcttgctg cagttgcaac aggttcgcac attgatgcta taccttactc tggaaaatat 480
gatggagtta ttggtgtttt aggtgctatt gaagccatca ggtcccgaa aagggtctgg 540
tttaaacctt gaagatcatt gcacgtcata ttattcacat cagaagaacc aacacgcttt 600
ggaatangta gcttgagg 618

<210> 5364
<211> 368
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071h06d1

<400> 5364

aaacactccg atgaaataaa attcaccgtt gtgactcctt ccacaggcag ttatcatttt 60
actcctgtaa aaagtgggtt ttatagaacc acttttcaaa ttgtatgggt caaccctca 120
ttctgataga ttgaaggggg tatatccaaa atttgaaatg atttaatcag taggctgtaa 180
cagaagtaaa ttacatgtcc ttttctaca aaagttcaca tgaactcact acagaagatg 240
ttagtgactg gacaatttgg ctagggtgag tgtaataact ttacaccat ttgacatata 300
ttgaatgggt gcaaactctt caggcttatg gctgtaccct ttgtaacatg gaatgaaaat 360
catgccca 368

<210> 5365
<211> 552
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071h07a1

<400> 5365

gaacgatttg atggtttgga atgcatttcc caagcaacga gtcttcgggt cgaaaccagc 60
agagagagag agaacttcaa ctgaggggtga gaggacaca aatctaggga gcactactct 120
aaaagttcta ttagattctt caaaacatga ccatgcatcg cgagtcttgg gcttttgtct 180
tcggcggttat gggcaacatc atctcctttg gagggttctt tgctocattg ccaacctttt 240
accaaatacta caagaagaaa tccactgaag ggttcagtc acttccttat gttgttgac 300
tgttcagtc aatgcttttg atttactatg ctttcgtcaa aagggaagct gccctccttc 360
tcattacat taacacattt ggaattgttg tggagtcaat ttaccttgca atcttctac 420
tttatgcccc aaggaagcct aggcttaca ccatcaagct tcttctctta ctgaatgtgt 480
ttgggttttg agccatgctt ctatcaactc tctacctgtc aaaggagca cagcgtcttg 540
ctatcatagg at 552

<210> 5366
<211> 507
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071h07d1

<400> 5366

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caacagcacc agcagtagct gcgtgattcg gttccattgt tcccatcttc ccaacgtcaa 120
tgatgtggcc attcaattct tgagccttca ctggctcctc tagtgccact ggggtggcgt 180
ttctgtacat caaatacatc cccatctgaa ttatgccgaa gacaaaccca agtgtgtttg 240
gaagagcaac gtaataatcc ctgaggagaa ggccatagaa gaaccacata acagcattga 300
tggttaaaaa cattgacaaa gtaaattggca tgtattccac gtcctctgctc tttatgacac 360
gcctaataat gaagagaggc gcagcaaaga cactgatgtt gaaaacaagg caaatccatc 420
ctatgatagc aagacgcttt gctccctttg acaggtagag agttgataga agcatggctc 480
caaaccctaaa cacattcagt aagagaa 507

<210> 5367
<211> 562
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071h08a1

<400> 5367

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tgtcttttgt gcggaattat caagcagaag attgtagttt acatagtggc tactggcca 120
cctttgatgg aaacaacttt ggcaacagca ataggaaaag aagcaggaac aattattata 180
acaggaactg taacatttac aatgacaacc ggacaaaatt tggggaccat gggtgcaact 240
ttaattttta cacagctgat catgctaatt atgtagata tgatgctgtt ccatcatctt 300
tgaaaaggag aaaatattca gtgcctgctt ggcaagaaag ccagcaatac tatgttccac 360
ccatggcca tgacaatatc ccttcactct ataatttcca aggtcctcct acaagatctg 420
atgggtgatgc ctctacatca gctagctgca agcgtgattg ctctattttt gaagatgata 480

agcctgtctt catgtctagg gacgaaattg atagacactc tccatcaaga aaagatggta 540
 ttgatgtaca tcatgagaca ca. 562

<210> 5368
 <211> 238
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071h08d1

<400> 5368

aaaaataaaa cccaacaat ttattaagg aaaatccttt acaatttcag cacatatacc 60
 ccggcatgaa tataattttg ccgctttaa gaatttttcg ccacaaacaa gggggtaggg 120
 ctcaacaag cccaaccaa caattataac agtttttaggg ggattaattt cccccagaaa 180
 ggaaattaac gtaataggca acacatgggg ggcacgttca tgggggtcat ttataag 238

<210> 5369
 <211> 587
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220071h09a1

<400> 5369

gcctgttact ctggttataa tcaagtagat tccgtcatca tgaaccaatc gtcaatagac 60
 cgtggattct ttcggtctct gtttttccgt tcatatagag atgaagagaa gaagatggga 120
 accctggcca aagaagattt tggccgtcct gatagagcta acaccatggg aatgagacat 180
 ggttcttatg ataagctgga tgatgatggg cttgccccac caggcacacg agtatctggg 240
 gaggatgtta tcattggaaa gaccaccca atatctcagg aggaggcaca gggacaagct 300
 ntacgttaca caaggcgtga tcacagcata agcttacgtc acagtgaaac tggaattggt 360
 gatcaagttt tgctgaccac aaatgctgat ggattgagat ttgtgaaagt aagagtgaga 420
 tctgttcgta taccacagat tggtgataaa ttcagtagta gacatgggtca gaaggggaca 480
 gttggtatga cctatacaca agaagacatg ccctggactg tggaagggca taccctgat 540
 attattgcaa tccacatgct attccttctc gaatgacaat tggtcag 587

<210> 5370
 <211> 439
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071h09d1

<400> 5370

aaatggaaaa ctcacaaatc aactttgtca aataaattct ctcatttcac tatattgtac 60
 aagaattgaa cttaaaattg ccagagtctc gagttacaag taccatatac catagctctc 120
 aagcattgca actaaattta aataatccaa ttcgggtgac ctccccctaa accaacaaaa 180
 ggattttcaa aattggagct ggaattctcg gttgattggg tataagacct ttcacagcat 240
 ttaagacggg gctcactaga attacgagac agaaacttct gctaaccat ctctgcttag 300
 tgaataagaa acaagctctc ggaattgaaa aacttccatt atatatacag tgctcggctc 360
 gtaacattag tcgcttgaa tgagcaccct tgaatagaga aaacgcagcg ggaaacatca 420
 ataatgaagg tatcaaagc 439

<210> 5371
 <211> 552
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220071h10a1

<400> 5371

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 ggggtcttcta cacagagctg taaagagaaa ctgtaggcct atggtagaac tactgttaag 120
 atttgttcca gttaaaacct cagatgggtgc agacagtga atgaagcaag ttgccgaagc 180
 ccctgacaga ttcttattta gacctgatac tgtcgggcca gctggggtga ctctcttca 240
 tgttgcagca agtatgagtg gctcagagaa tgtgttgat gcattaacca atgatccagc 300
 aatggtggga attgaagcat ggaaaagtgc ccgggacagt acaggtttga cccctaacga 360
 ccatgcttgc cttaggggct attactctta cattcaacta gtccagaaca agaccaacaa 420
 aaaaggtgaa agacaacatt tgggtgatat ccctggaact gttgtagata gtaacacaac 480
 gcagaagcaa tcagatggaa ataggacatg tagagtttca agcttaaaga ctgagaagat 540
 tgaaccacag ca 552

<210> 5372
<211> 504
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071h10d1

<400> 5372

gaaccgtaaa tatcttgtat ttattgatta attaatacaa ggcaatttcc tcaaattgct 60
taaaactgtt atggcggttat ccttattatc acatatataa tggcctaata gcattgaccc 120
catatttaac aggttcacag gtttcataat caagattctg ttctgaacag gtgaagtgtc 180
aacctcgggt tttccccata tatattgatg acagctacta ttactatgga tgtataacat 240
gtctatactc taaacccaaa atctaagact taccagttt ctaaaataat atattaagaa 300
aaggtggaag cttacagcag aaaacacctg atatacaaca ttacattgcc ccatactcta 360
atgattccca gttgaaaggc tggaagacat aataaactct aggtgagctt ttgaagagca 420
tagctacaca gacacacaca actgctatgg tcaccatgga gagcatgact ggcctataaa 480
ccattgctgt tttcatgcc aat 504

<210> 5373
<211> 567
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220071h11a1

<400> 5373

tcttgataag ataaaactat cctcaaaagc gcacagatat agattacaat gctattacac 60
tgaacaaggt tggtagatg acatattcaa tatatcgcaa tattggagat ctctaaagta 120
caatcagcca aactgttggc ttgaaaattg gttaagaaga gaaattcaag ctcttatcca 180
ggaggaggat gttgacatca ttttgcacca tatecttgct gtggtcaaag cagcattatg 240
gactaggaga gagcagaagt cacacatgaa tgcacctgaa aagaaacagg aggagttcaa 300
gatgtcagtc tctgaagccg caaggccttt tctggcagca agaacggaca gatttgata 360
tgagattcaa ctatttcttg cttcgggaat gaatattgaa gcttatgatg ctgcttacat 420

acaacggtta ggttggagct cacctggggt aaacactgag gtttctcata gtgaattggt 480
 tgatcgctca actgtgattc catacatgca cctatttgat ggtgactttg atgaaaatga 540
 ngtagattct tggctctgtt ttctcat 567

<210> 5374
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071h11d1
 <400> 5374

aaccaatata atatgatatt gataacaaac atatgttaaa caactttaca cccttggggtg 60
 gagaatttgc aacttctgca gtagctggaa agaatacaata gcactcattg gtgtgtgagc 120
 aaatttctcc tatacaattc attcgggtag caattacagc aaatacatga gaaaaacaga 180
 acaaagaatc tactcatttt catcaaagtc accatcaaat aggtgcatgt atggaatcac 240
 agttgagcga tcaaccaatt cactatgaga aacctcagt tttaccccag gtgagctcca 300
 acctaacgt tgtatgtaag cagcatcata agcttcaata ttcattcccg aagcaagaaa 360
 tagttgaatc tcatatacaa atctgt 386

<210> 5375
 <211> 623
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220071h12a1
 <400> 5375

catttttctt tccttttctt ttactaaca tcattattct actttgttgt atctgagctg 60
 ctgaacttca gagtgtggca gcagatcctg ctcttcttct tcaccatcag acttgtgctg 120
 gaaatgggat tggtgacagt acctccttga ttccagaatc ctccagaaga ccaagcctct 180
 cctctctgca aataccagcg ttgtcagtgg aaaatgcatt atcttctttt aacaagacag 240
 atggctctat attgatatca agtccagggt ccagtagagg actgccccca aggccaaatt 300
 cagccagagt catcaagtcc actatgaaaa ctttactctc tgaaaggagc ttaggggcta 360
 agaattcttc aatggatagt gaaaggacag ttctcattat tcctgatggc tcaccatcag 420

atggtcctgt ggataataag ccttcgactt cgcggtcctt ttctcttaac aagattttgt 480
tctcttcctc aacaaaagca gcacattcat tgccggttac tccaactgca aattcaggtc 540
cagagaatgt acatggaaga catctagggt gtgattctga ttttaagtaaa atgaaagtaa 600
atcagcacat gacttcgatac agt 623

<210> 5376
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220071h12d1

<400> 5376

atgtccgatt caagaaatag tcaattatct tcaaattatt atagtacaaa tcttgatgca 60
agaatctaata gataaaaaat acatgacaac catatatatt gtaagcatat aaacgcctc 120
aaccctcttt caaaaaatat tcaacaaaaa cattcctatc ctgtattcgc agtttacata 180
ttgctgctca tgatggattc attcattcct catatatattt ggttcacacc aaattggaaa 240
ggccaaatct ttgtagtttc taaactataa acaaataaga gaccacaaaa tgcttcattg 300
ttgcaaaata ctggtgttca actattgctg gaggagctac tgctactggt gttgcagcct 360
ttgcagttgg tgacactgtc attgatgttt ttgctactgc agtgcatgat cacggcgctg 420
ctgccgtgcc gtagaagatt gaatctgtct tcttggtttc catctaacat actctgttag 480
cagcgatttc aagctgattg caatcc 506

<210> 5377
<211> 362
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072a01a1

<400> 5377

cttgacatc gtttctttgt tgcccaggga tctaaacttc aatgagcata caagttgtat 60
cgactggcca gagcatcaaa gagccagcc tatcactata gatacaggct gatattcattc 120
aaagaaatct ggctgactt gggctaaaga taagagatcc gttacatcat cgatcaagct 180
attcacaggg tctgcatggg ttgtctgac aaactcatct gctgagactc atgtttggga 240

tactgataat ccttctagaa ctctccttat gtattacaca aattttcttt catcccctga 300
 gggacacata catacagaca ttggaaaaca taaggtctat cataacacaa ccattaatca 360
 tg 362

<210> 5378
 <211> 359
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072a02a1

<400> 5378

cattgttgta agttgttgat tactatggcc tgtataattc gatattctaa cctcatgagc 60
 ggaatgagat cggccgtgta tgagcgatct tggctgggtat aggcatgggt gctgtcatcg 120
 aatgcatggt gacaactact gcctcttgcg atgatgagcg gcaacacgat cgtgtcgaga 180
 tcatgggtcaa cgatgcagat ctacagaact actccatcct acgtggctct gaccgtcaca 240
 ctactgatga tcggtagata cggcgacata accgactcga tatgaaccct gccaacaccg 300
 taatgaatgc tatgctgtaa gactggaagg cgtattctcg tagcatcagt acacgggtga 359

<210> 5379
 <211> 547
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072a02d1

<400> 5379

gagtgagctg accgaggaat ttgccgtgct acatgtgtgc acgtccgcct gcttgggggg 60
 gggggggggg gggggggggg gggggggggg aaggagcgga aagccggagg atggaggggc 120
 ccatagtgta ctacctacac agttctcttt aaacttttta aggaacaatc gtgggagggc 180
 cccagaaaga agttatagag taaacgaggt aataagaata taaagaccaa gtatcaaagg 240
 acacaaccaa aagaaaaaga aaaaagaaaa aaaaacgacg gcagcagcgg caaggaagga 300
 accctaaaat ataatttgag aagtccagtt tagctaacgc aatagctgcc ggctagtcgt 360
 tagaccgaa tgcgacctag taccctattg tggtggcaac aatggccaag aagtgcgcc 420
 attccattta ctactggtcc gctgataata cgatgcacgt cgaggcaaaa ttcgctaccc 480

cggcggctag ttcttaccaa ttgccactgc acgcccctat gtgttcagca gcgtcctcct 540
ctaggga 547

<210> 5380
<211> 219
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220072a03a1

<400> 5380

ctctacgaca acctcctttc tctctatctc tagctcggat gagtgctctc tctaactcca 60
gtagtagcca cggcaattcc ttcctcaaga tgcccggcat caagtttacc aagctcttca 120
tcaatggaga ttttgctgat tccatatacag gaaggacatt tgagactata gaccccagaa 180
aagaagaggt aattgcaaga gttagtggag gaaataaag 219

<210> 5381
<211> 581
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220072a03d1

<400> 5381

cgcacgcacg gttgccgggn agagtttgcc gtgctagcat gtgtggagtg ccacctgctt 60
gggggggggg gggggggggg ggggggagag ggaacggaat aatcgccgaa gaaaataaac 120
gaagtagaag aagataacac ataaggtata taggagaacc aaggaaacgc gaagggaggt 180
taaagcaaaa catgtatagg gcgctgtatc gaccacatag gtaatgaggt aaacttaacc 240
acaaggagca agaccgcgga taatacaggg aatggcgaa gatggcgcaa cccttgcgaa 300
gtttaaagtg tggttaaagt tctgtagtgg agatttgta aaaccaatag tatgtttgat 360
ccgaaaagac tacggcagtt aaataagctt gctatcaagc cattggcata gacgcgggct 420
acgagttaaa ggtggccgga taaggttgct gctgacctta gatggccgag gcggactatg 480
gggaaggctg gttgttagcc gtggaaatgg tagtactctg acgataccct taaagagggt 540
agtttcgctg aggactagcg ttgttgggat aggccacaaa a 581

<210> 5382
<211> 521
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072a04a1

<400> 5382

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cagacattcc tctcctcttc cgtctccacc agatcatttt gctgcttcat cctctccaat 120
gggagctgta aatatgtcta agagctttga ggatgctgtg ccagcacaaa tgacaggcaa 180
acaagatact aatgctgttt ctgagaaaga aatccctacc aggacaaaca atgctatgag 240
gaacacacca ggaggcaagg gaaaaaatgg gtctaaacca gtagatttgc agggcatgct 300
aatttctctt ttaaaggata aacctaatgg aatgactttg aaggccttgg agaaagctgc 360
tgagagacca cttccaaatt ccatgaagaa aattgagcca attataaaaa aaattgcata 420
ataccaggct ccaggatggg atatcttgaa accaggatgg gatttagaaa gcttaataaa 480
cctcagactg aaagtggaag ttctctgat gactatcaca g 521

<210> 5383
<211> 610
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072a04d1

<400> 5383

cgtgcgtgtc ggggatttgc cgtgctacat gtgtggagtg ccgccttctt gggggggggg 60
gggggacgcg gcgttaaagg atgccccaaa ttacaaggga taaacctgca acagcctggg 120
ttgcaagtgc aacggctggg taagcaacct gggatgggac gaagagtgca aggttgagtt 180
gtacaacgcg ggctgggcgg ggttaatacg ggaaagcaat tgggggcggt aaaggctggg 240
ctaatagcac gggtagtgcc acgccatgta tccaaggat ttaatgttaa cgttcaaact 300
gtgtgggcaa cccacagatt gtcttttagga cggatacccc aggtagtaaa attaagggtca 360
ggcggcgttg gaccgcagcg gtttaacgcg catgcgcgat gggcgctcctt ggttggggaag 420
ggattaatta ggggtattggc gggggccgaa gaacaagtta gccagacgca tgcgggatgg 480
ctaggatgat tagtttgcca aggttgcccc atgggggggtg taagcctagc aagagtggta 540

ggtaaccaag tgtgatgaca gggagtgcgt gctatacaac agctgggtatc gcgagcaaac 600
gttgggttgc 610

<210> 5384
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220072a05a1

<400> 5384

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agattgtgtg aagatggggg cgggtggccg aactgatgtt cctcctgcca acaggaagtc 120
agaggttgac cctttgaagc ggggtgccatt tgaaaaacct ccatttagtc tcagccaaat 180
caagaaggtc attccacctc actgtttcca gcgttctgtt ttccgctcat tctcctatgt 240
tgtttacgac ctcaccatag ccttctgcct ctattatgtt gccaccatt acttccacct 300
ccttcccagc cctctctctt tcttggcatg gccaatctac tgggctgtcc aagggtgcat 360
ccttactgga gtttgggtca ttgccatga gtgtggccac catgcattca gtgactacca 420
gttgcttgat gatattgttg gcctagtcct aactccggt ctccatgtcc catacttttc 480
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<210> 5385
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072a05d1

<400> 5385

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gtggagggtgc gaaataaaat tctgggctaa tgcgtgacag atggatgatt aatagtaccc 180
ggtaataaaaa ggaggtttaa gaactaatta gcagggtgaaa tacgtataac ccaaacggta 240
aacaacttgt cctgatagga agtagtataa tggaggcggc cggtaaaaga tattgggctg 300

tgtccgatgg gcagtgcctg ttatagaaag atatgtgggg cttgggtgtt ataggcttgg 360
cataaagcca cgtgtagtaa attcagaaga tgtgtttaaa agcccgggga ggcttgggcg 420
acttgttagg ctagcagaag cgcctaggcg ccacaataac gcagcgctga tagcaagcgt 480
gccaaagga gccaaaattg gcggtaccag gttagaagtg tgagttatgc ggctg 535

<210> 5386
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<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072a06a1

<400> 5386

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gatccatcct cactgatgta ctcatatctg aggacaatgg cacattagat ggacaagggtg 180
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ggaatgtaca tactatatac agcagcaacc ttgatagtca aggaatcaca attcttgctc 360
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aggact 426

<210> 5387
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072a06d1

<400> 5387

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ggagatgaat ataatgtgtg ggaggaagca taaagataaa gataggtact tatgttaaag 180
atagcatgga gctagatata atgcagaaac caagtgccgg ttggttaagg tataggagg 240
gaaaattacc aatactatgg aactaattag acccggttga cagacacaga tgctgcccaa 300

tgttgtgcaa acgtaagttt gatgcatgac aaccagacac taaactcgaa cctaggggag 360
 tgccctttaga ctccgggagc aagcgtgtag tgggcccgtgg tgtgagaact ggtgggggtaa 420
 gtgtgggtaac tgggtgggtta aattgtggaa agcttgtgaa gccattccta gtacaacggt 480
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<210> 5388
 <211> 480
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072a07a1
 <400> 5388

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 ctgtcacttt ctcccaaaat cttctccttc accttgcttc tctcattaaa ctcccttctc 180
 tttttcccat gttgctactc ccttgatgag caaggccaag ctcttatagc atggaaaaac 240
 agtttaaaca tcacttcaga tgtgttagca tcatggaacc cttcagctc aagcccatgc 300
 aactggtttg ggggtgattg caactcacia ggagaagtga tagagataag cctgaagtca 360
 gtgaacttgc aaggctcatt gccttcaaat tttcaacctc taaggctcct gaagattctt 420
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<210> 5389
 <211> 574
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072a07d1
 <400> 5389

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 gagaggagg gagagaaaag aaaagataac cctaatactt gtagagaaca cctgtttaga 180
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 ttaagaacct taggccggtg tgtgtatagg agaattttta aaggaggagg ggaccaaga 300

atztatgtaa tacccaacag aaagaatata ataggaaaat ttcaaccatg gagagtgttt 360
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 gatgcctagt atacttggca ataaagcagg cccatataat gccattattg atgttaactg 480
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<210> 5390
 <211> 604
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072a08a1

<400> 5390

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 aatacagtgc aagcagtgc gccacgtgaa accgccaac aacaacgtcg tgacgacgaa 240
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 aagtaacaac ggtacagtgc tgctggatgt taatgctagt tctaacttag ttgcacaggt 360
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 ggtgtggtgt tgggggtggc aggggtggtt gctttggggc agtgtgtgat tgatatacta 480
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 aaaaacatgg ctgagagtag gggggcaata gccgcgctgg ctgcatttgc aaacaagacc 600
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<210> 5391
 <211> 576
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072a08d1

<400> 5391

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 gagagggagg gagggaaaag aaaagataac cctaatacct gtagggaaca cctgtttaga 180
 gcacggccta cggcaaatca aaaaaatagc gccaggagta tataaaggaa cccaactgat 240
 ataagaaccg taggccggtg tggggatagg agaattttta aaggggaggga ggaccaaga 300
 atttatggaa taccaaacag gaagaatata ataggaaaat tacaacgatg gagagtgttt 360
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 gatgcctagg atacttggca ataaagcagg ccgatataat gccattattg atgttaactg 480
 gggtagaccg ttggggatta tacgacgagt tgggcagcgt taacccaaag gccggaaccg 540
 gggctcttagc tagcgaaagc cctaaactag taaaaa 576

<210> 5392
 <211> 587
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072a09a1
 <400> 5392

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 gtcgtattaa aattatcttc gttgttggtg gtcgctgta tcaggctcat actacgttgg 540
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<210> 5393
 <211> 527
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072a09d1

<400> 5393

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cgcatacaga agatgagaag acaatacagt gattggcctg gacgtagtat aggccataac 180
gatacgataa aataacctct gcttcatact tttctagcga agcgaagaga ctgaaggaa 240
gaatgacggg ccggttcgta taaggcccg cggaatgacc cgttctgtgt ccgggccggt 300
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gcctggatcg ggcataattt gctggtggtg gggctggttt aagcatatag tgcaatgggc 420
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<210> 5394

<211> 605

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072a10a1

<400> 5394

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tctcgtcaca ggcattgctca tccgtacccc cgctgggggc gccaccttca tatgcctctt 360
cgtagtcac agggctcctca ggggtctgttt atttggcact gttcgtactg gagttttctt 420
cgccaggagg tataaccaag actagttgag ttttgcgcc gcggataccg aatatagggt 480
aaagcgccac cccgggtttg cccacggccg agctaatagt agcgactaca gccacttggt 540
ccgtgctatg gtagtaagat agccgtacag cgctgtcgc ctgaccagcg gggtaggtta 600
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<210> 5395
 <211> 577
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072a10d1

<400> 5395

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agaaaaaggg ataatatgga agcgacgtta gagaaaatgc aaaccacgtt taggaatacg 180
gctagattcg ggcgtaaaac tagtcataca gaataaacg atcaccccaa acaaaatttt 240
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tttagcaaga ggccttggtt ttaattaaac gtactagtag ccaggccaac ttgacgttac 480
tgacgcagat taaccgggcc atatggcaaa cgagcacttt tatcaattac tctggggaca 540
gtcccagcta cggtgacaga cgtaacagtt cagtgtgta 577
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<210> 5396
 <211> 585
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072a11a1

<400> 5396

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ggaaccgtag gtgtgcagcg gcagaagact ttacaagtgg gctgcctggg gacgcctaata 480
aataagcgat agctgggaga gcatggggga tgaaaggata ccgggtgtgg cattgtatgc 540
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<210> 5397
<211> 525
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072a12a1

<400> 5397

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<210> 5398
<211> 477
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072a12d1

<400> 5398

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cgcgcctagg agtaaaaaaa ccggaaaggc aaccaaaagc cccacgttag gatatatgct 180
gatgagtacg attaggtgtg ctacctgatt tgggaatgaa gcttccgtgt agggccaccc 240
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gaaaaaaatg accacagaag taatggggga accaaccgcc agctacatgg ccggcggaac 360
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tagtgcaggt agcagtagcg cgaagggtga ggggtgcttg ccaggaccaa gtaagtg 477

<210> 5399
<211> 501
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b01a1

<400> 5399

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taatcccaga atatagcaat t 501

<210> 5400
<211> 519
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b01d1

<400> 5400

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ctgggcttgg tatggcttgc ggtggcatag taattggcg 519

<210> 5401
<211> 144
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b02a1

<400> 5401

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tgtgaagtgt gtcggcaact gaggc 144

<210> 5402
<211> 656
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b02d1

<400> 5402

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aagaataata aaaatagtag taagccatta gaggtggcct actcatgggg cacaaccg 300
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<210> 5403
<211> 535
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220072b03a1

<400> 5403

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<210> 5404
<211> 596
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220072b03d1

<400> 5404

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cattggttgt gcacacacat gctatacggg gcgatggtac caaccacgtt aagcatatat 480
tattagatag gtggctagaa ttcgaacgac caaccatagc cgggcggtta tggctagaag 540
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<210> 5405
<211> 512
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b04a1

<400> 5405

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gctccggcat cgcctacaac aagctcaccg acaacggcgc tgccaccctt gccggcctca 240
tctccgctc catcgcccat gcattcgccc tcttcgtcgc cgtctccgtc ggcgccctaca 300
tctccggcgg ccacgtcaac cccgccgtca ccttcggcgc cttcgtcggc ggcaacatca 360
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gagttggcaa cgccttgggtg ttggagatcg tg 512

<210> 5406
<211> 517
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b04d1

<400> 5406

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gcagaaacat aattgtcgaa ataaccttac tcaggttatt attcagcaca ctttcccttt 180
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taagcctcag ccactaaga aggtttaag gatttgggtgg ccccgtaagc ctacggctcg 360
acattcgcgg tattacattc aagcgtagta tcagtgttaa tattaacctc ggcttaatgg 420
taatgttact ccacacgttc aagctgccaa tacgccagct ccgcatcaag cttagcaaca 480
cccaactcat cagccacttc agcactgccc tcagcat 517

<210> 5407
<211> 495
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b05a1

<400> 5407

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tttttttttt ttttttttac ctttctccct cgctcaataa ttcaaaacaa aaaagaagaa 180
gaagaagggtt ttcgcgatgg catcgaaacg gatcttgaag gaactcaagg atctccagaa 240
ggatcctcct acctcttgca ggcgcggccc tgttgctgaa gacatgtttc actggcaagc 300
aacaattatg ggtcctccag acagtcctta tgctggaggt gttttcctag tcactattca 360
tttcccttca gattatccct tcaagccacc caaggttgca ttcagaacaa agggatttca 420
cccaaataa aattgcaatg gaagcatttg ccttgacata ttgaaggagc cgtggagccc 480
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<210> 5408
<211> 530
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b05d1

<400> 5408

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caggccccct aataggggtat gcggtgaaag gaatagggct acgataaata ataccacaaa 180
tcggggctgt taggaagtgg taatgccacc ccttgaggga aaaatcataa agaggtagat 240

aaccctgcag accttgaaat atgcccacga caaacctgtg gttggatata gggtataaccg 300
 tatggaattt agcctagagg gtgcccgtta ctggtgccta cggcatgtcg atggcggggtg 360
 cgtgcgtggc gatagcgccc tgagggaccc cattaaacca gtagtaccag gacccgtttg 420
 caattcccca taaagccgca cttatatttg ggggaagggct gttgtgacgt gttatgctgt 480
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<210> 5409
 <211> 296
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072b06a1

<400> 5409

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 gtgttcatat ttgaagttaa atcttttcac caattggact gagactgctt acagtttcag 180
 aatttgtcag aaaaagcttg tcccgaattgc atttttgttc ctgtacgtac tcttattgat 240
 acggatggca gcaccattgg catgtgtcgt tgggagtggg tcatctcata cagagt 296

<210> 5410
 <211> 585
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072b06d1

<400> 5410

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 gggggggggg gggggggggg ggaaatataa aggggaataac tttggtagaa atattagggc 180
 ccacacccat ttttaagcttt ttaaaaattt ttcccaaaac tcccggggaa aacttcaaaa 240
 aaaaaaacc aggggacctt taataacccc tgaaaccgca aattaagttt tttggagaac 300
 cccccctaaa cccaagtttt gttgggaaaa aaaaaaattt ttcccccccc caaatcccc 360
 aaaaaatgcc cttttccttt ttaggggttaa tttagcccc ctttctttaa tgcccccccc 420

cccctttgaa aaaaaaaaaac ttaccccccc caaaatTTTT cctccccccc aataaaaaact 480
 tgggtaaaat tggggaaagc cccccttggt gggccttttc aaaaaaatag cgggttttat 540
 tccctttgga atttaaacc cccgcccctt tttttgcgac ccccc 585

<210> 5411
 <211> 289
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072b07a1

<400> 5411

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 tttatttttt gctaataatt tgattgttg aattgtcaat ggtggaccct ttgagccaaa 120
 gtgttcatat ttgaagttaa atctttccac caattggact gagactgctt acagtttcag 180
 aatttgtcag aaaaagcttg tcccgattgc atttttggtc ctgtacgtac tcttattgat 240
 acggatggca gcaccattgg catgtgttgt tgggagtggg tcatccata 289

<210> 5412
 <211> 409
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072b07d1

<400> 5412

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 gggggggggg gggggattaa aataataagc gtggcaggta cagacgcact aatggcgata 120
 ttagtagagg gaaagagctc ggggatatgg gggcggggta acaccatgaa gataggacac 180
 caaaatagac aaacaaacca acgtgggagg ggtgtgtgag ataagggcga tttttatcgc 240
 agcaatggat taatggctaa ttaaatgcaa tgtgattttt agaggaatgg ggggaacaac 300
 cttaaaaaaa aaaaaagctg taggcatagc ataccatatt aaaggctaaa aggactaaa 360
 ggggcaacac aaaaataaat ttgggcctga aagggaatg tggaacttg 409

<210> 5413
 <211> 658

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b08a1

<400> 5413

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cttaactgtc ttccaagtgt gtttatcagg cagattctgt gtgtgttgca tgtattgttt 180
gtaggcagtg gtgttcagcc ctgaaacggc tatccattag agctgtggtg atcggagagt 240
ccctcacggc ttacttggtt gaagggtgag ccctaaaagt tagggcaagt gacttacagg 300
cagcaagcct gccatgagct gttgagttgt gtaggccctt tgctggggca caagctagct 360
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ctacattgac taagtgcctt accgtggcta ccggtgcaa acacagccca aacgtgaagc 480
aacgtaaaca aagagttaaa gtggctatca gccggtgaagg taagacgcca acaatagccg 540
atgcttggaag agcaacgtat agtacgagag ctgcctaaaa aagcaagccc gcaattaata 600
ctaattagcg taaaacaata cgtacgaaat atgcagaaac gcaacaaccg caagccac 658

<210> 5414
<211> 557
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b08d1

<400> 5414

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agaagccggg ctagagaaat agacgataag cgcagccgaa atagaaaacg acggttataa 180
atggcggagt ttaggatta atggggtgca cgcgcaagcg cccggagctg ttatatacgg 240
gtaacagaaa aacaggatgg taaatggcgt gcggttgat tagtaccag gctagagagt 300
ataaggccgg cgcaccctc aagcaaccg aaagtatatt gcaaagagtt tgggtgtgtt 360
acggctaaga tagtgttatc tgcaacaggg tctagcggcc acgtgttaga gctgaaacgt 420
gttgggggcc gatagcccg aactatagta agcaaagttg ttgtggtaac tgggggtggg 480

cgaaggacag aagtaaattgt tatgaagcgt acctaaatga cggtagttag tgtaacgact 540
 taacgcacgg gtaaggg 557

<210> 5415
 <211> 542
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072b09a1

<400> 5415

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 cgccaacaaa cgtgtaattg ggacgtcaaa cactaaccag tgcacgcacg cactcagtag 180
 cgcgccgccc ctcaggagtgt ttcatggttag gttactcccg tttcttcctc cctctactc 240
 tcgcattctt catagttgcy ccttcaaggg caccaactcc ggtgtcaacg tctgctgcca 300
 tcagcagggt cacctacccg gtacacaagg tcaccagcat gtccaaagtc accagcgtca 360
 gcagcaccat cagcaacacc accaccacgg caacaacaac aactttgggc ccggtgtgtc 420
 tgtaataaat aacctgctgg tgaacttggt tgtgtcgcca ctaataatgc gcaaagtgcg 480
 ccaagtaaac ccctaactgc acaacgcgct taacacaaac aacaacaatt acgagtctcc 540
 aa 542

<210> 5416
 <211> 597
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072b09d1

<400> 5416

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 caaaataatt aacggaaaaa tgcgaacgta acatgcgagt ttacattaga gagaatagaa 180
 ggcagaagtt ggagccatag taaatacaaa agttttgcaa aatcaccgtg tggcacgggt 240
 atataaacca gatttgagaa aaattgagag agacgttgag atgctaggac tgataacaga 300

aagaaatgtt atagagctgg gaactaccgg ccgggggtggc tgcgccaggt tagtattaat 360
 agtatcagta taaggtggcg actgggaggg atagaaaaac ccagagcaac cgcggtacaa 420
 catgttgctt agccaaccta ccgtcgtcaa ctgttaaacc ggtagacccg gggtactact 480
 agttgcacag ctagtggtat gcactaaaca tcttaagcta ctagtacttt agctggtagt 540
 aacaaaacaa ccccggtgtaa acaatgggtac tgcccaggta agcgtgctaa ctgttgt 597

<210> 5417
 <211> 553
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072b10a1

<400> 5417

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 gtccaaaatg tagtcatccg gattgtgttc acagactggg tcatctcaag tgtaccttcc 180
 acaacgggtga taaggtctt agtgtctggg ttcatcacct tacatgtggg catcatccgt 240
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 acaaaagggc tccaggcgga catgcgtaca actgcatctg ccacctcgct atctatctcc 360
 tctaaaatca cacctgggtc tgctctctcc gccgggtaccg ctgcgggtggg cactactggg 420
 actgatcata tcttagtctt ccaatctgca gcctcctcca actacttctc cacttgcgct 480
 cctacgtcct cctctgccaa tcccaactcc aacctcctcc atcacaacca ggaccggaca 540
 tggacactat cgc 553

<210> 5418
 <211> 551
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072b10d1

<400> 5418

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aggtcacaaa cgaaacggag gagatgagga agtaaggcaa aggaaaagga gccaaaagga 180
 aacaaaaaaaa aaagcaataa ggataacgcc catttcgagc aaagggatgt taataagcag 240
 gtgtatcgca cccaccaaac gggactagcc gcatgagata gcagccccag ctgctgctgc 300
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 tcaagtataa attgcacgtg gaaatggcta attcaagggt tccttttagtc atctttggta 420
 attattcctc ctcttcttcg tccatggcgt aaatggcctc agcatgtgtg gtagacacca 480
 atatgtctcg gttacggcag ctatgtctcg ttgtagctga gttagcgtta actctactat 540
 tgcaggtggt t 551

<210> 5419
 <211> 524
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072b11a1
 <400> 5419

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 aatgaatagg ggtaatggga agataaggta cacgaaagca aagccacaac aggcgcaaca 120
 cagcgacgca cgcacgacgc acgcgaaata accggggccgt gggctgctgc atcggtagta 180
 tgctaaccgg gttctagggc ccgggtgtgt tcaggcaaaa aacgaccagc ctgggatatg 240
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 ggaacgggct ggtgttgaag cgcgagcacg ccgggtccac ggtatgcgag accaagcgcg 360
 aagcccgggg gagcaaaca agtgggggtg gggggcccga aagaagtaca catttgggg 420
 aactgggact gacaggctgt cagtacaggg gctgtgcccg aagatttaca gtagcgcgat 480
 acggcatggt aagctgctag gggcacgcgg gcagcaagat gggg 524

<210> 5420
 <211> 514
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220072b11d1

<400> 5420

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gggggggggg gggggggggg gggggggggg gggggggggg ggggcggggg gcccgggggg 120
gggggggggg gggaaaaaca aatccccac aactaccct tctcccatt tgtgggaagt 180
aatattttt cccggaattt tacccttggg ggggctctaa cccggttttc accccccaaa 240
atctgcttgg ggttccccag aataattttt gcaatttcca aaggccccctt ggccccctat 300
ttactttttg ttagaagggc ctacccaat ttggttggct ttagattaat ttttgggcca 360
actgcgccc aaataagaag ggggtttacct gtgtgtattc cacataaaac aaacttgcgt 420
ggggccctta aacttttttt cccccaaaa catttccccg atggctcgta tcccattttg 480
ggctgcccgg actttaacgg ggtgttaagc tttt 514

<210> 5421

<211> 621

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220072b12a1

<400> 5421

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gacactcacc gtgcaccaga ggctcgcaac aagtgtttta aacagcggcc acaccatcaa 120
tgctcccaag gtgggggttcc caaaccacca agaagtattc agcgtaactg gagctcgatt 180
aaacagccgg acacgtctta agggctcggg agtccagagt cgatgcaaca gcaactgtac 240
caacttaggt cagagggtaa gaaaaagggt tggccatag tgacaaggag ggcgccaccg 300
ctgtcaaact agccccagct aaagtgggtg tcgttcgcca cgtcataggt caacaaccaa 360
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aaggtcaaac cgcccgggcc gcagcagcgg cagcatttat actggtacca ggggtgttac 480
cgtagctact tgtcccgga cgtgaaaagc gccctcaagc agatcgtcag gcgcattaag 540
cggcctaata aataactaag cttaaagaac cagaagcagc ccctagtcgc gctaacgcag 600
tacacgcctg taggtcaaca g 621

<210> 5422

<211> 298
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072b12d1

<400> 5422

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cccccccccc ccccccccc cgggcaccca ccccccccc ccccccccc ccccccccc 120
ctcgccccc cctgcccctt ttataatac tctatcaa atcctttatt cttaaccctc 180
ccccctcac cctctaccct cccctctcct ctccaacccc cccaccccc ccaccctcc 240
ccccctacc cccctcattc cccccaaaa tccccctctc cccaccccc cctcccc 298

<210> 5423
<211> 573
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072c01a1

<400> 5423

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actccattgt tcgcgaagt gtaggaacg tttccaagaa agatccccgc atgcttgcca 180
gtctcattag acttcacttt catgactgtt ttgttcaagg atgtgacgca tcagttttgt 240
tgaacaacac tgccaccata gagagtgagc aacaagctct gccaaacaac aactctctaa 300
gaggtttgga tggtgtgaac gacatcaaga ctgcagttga acagggttgc cccggcgtgg 360
tttcttgtgc tgatattctt acccttgcat ctgaaatc ttctattctg ggtggtggtc 420
ctgattggaa agttccattg ggaagaagag atagtttaac agctatatcg aacccttgcc 480
aatcaaaacc ttctgctcc tttcttcaac cttactcaaa ctaaagctgc ccttgctgtt 540
caaggctctg acactactga actagttgac ttc 573

<210> 5424
<211> 458
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072c01d1

<400> 5424

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ctttgggggg gggggggggg ggtaaaggga caagttgcc aactttggta ctgtaattaa 120
ccctagaagg gaagcaaagg tgaatttagt caggaggaaa gggctagccc caaggagtca 180
gcgagagtatt aaaatgcggt gtattttggg taaaaggtaa atggagtaac ggtagctgg 240
ggaacggatt ggaccatgac attggaataa aaagaagtga ccgaaaagca cacgaaagaa 300
tggcaggtag aagcgtatgg actatggaat tggtgggaac ctagagctaa acgagagcaa 360
gcggccagta ctagtgttag tttggaacga gctagaacat taactaacga gtgagtaggt 420
agctgtgctt taatagaaga tgccaaagggt ggaagtgg 458

<210> 5425

<211> 495

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072c02a1

<400> 5425

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ataatgacaa gtgggccatc acgttcgtgc tcttcacgtg cctccccttt gcgacgctcc 180
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tgcttggtgc gattccgctg caaattgtaa cgttgggggt catcgttcgg tggagcccgc 480
accaggaggt tcacg 495

<210> 5426

<211> 575

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072c02d1

<400> 5426

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aacaactgag aggtggatgg cagaaaagga cagaagtat cgacaaagcg tatcagaaca 180
gttaaccggg ttctaaagaa tcaaatttta cataaagggt ttattgtatt ctgggtgggt 240
ccagcagccc agaagtaaag gcagagcaat aaagcataaa aatactgcta ttgaaaggag 300
gaatggaggt ctgcagaggg ttatgggtgg aatgttaggg ttggcgtaat ggtacaaggg 360
gtacaactta agtgtgttgg taaggcagct aggggactgc acccgcggtg acgccccaaa 420
cagttagtat taggggttat gcccatagta gtagaggagg ggctatgctt agagttaggc 480
tgagaagggc taaacttagg gcagcggaat ggctagggac gataggggga gccttgcaag 540
tgggttggcc aggggcgaag ttatgcaaatt acaac 575

<210> 5427

<211> 298

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072c03a1

<400> 5427

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gctagaattt gtcgccaatt taagaaggaa gagcagcgga ttttcaagag gggcatctgt 120
gtatagaggt gtgacatgac accatcaaca tggaaggtgg caggccccgaa taggaagggt 180
tgcaggaaac aagacacacc ctttaggaga gaccacaaac atatcaatcc cgcatgatta 240
tatgactatg atacaccttc agaggggtga aaaaagaaat ggaaaatata aataaata 298

<210> 5428

<211> 554

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072c03d1

<400> 5428

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 gggggggggtt aggggtggggg gtattttgtg caaccgcgag tagacgtaga gaagtagctc 120
 ccaggcagag cggcgcccggt gtgttgaaac ccgcgcgtgg cggggtgcta atttggttga 180
 ggtcccttgc ttattggtta gcggcagccg cgtggcgtat attgtgagat atacagcttt 240
 tgtggcaaaa gttctgctgt ggttggtgga aaggcctcat aaaggtggct tgccgtagcg 300
 ctggtagtgt ggtaacggtt ggtgtagaac gctggaaacc caaaggagc tgtcacttca 360
 aggttcactg gatcgatctc gctagctcat cgtagactgt ggtgagacgc gtattgaaag 420
 gtaaggtatg ccttcgtcag ggataatcgt cgcattgcca aaatttgcct cggatttaat 480
 ggaagtcttg gctactatag tttttgggtc ttactgcctc gaagactcaa cacctttcta 540
 ttcagtctgt ggg 554

<210> 5429
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072c04a1
 <400> 5429

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 aggagcctaa gccaaaggaa tgtgatagta aaatgttaac ttcaccgtct gctagtcctt 180
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 aagcgtcaag cgtgagtatc tcaaatgatg ggtcaaactt gtgaagattt agaagaattt 420
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<210> 5430
 <211> 584
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072c04d1

<400> 5430

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gggggggggg caaagatgca agatgcggcg gactgataag agatggtaaa taaatcgacg 120
cagaaataaa tcggcgagcg aggagatacg ggccttgccg gcttgctgag agaggggcaa 180
aactggaaac cacagaagtg aaagtaaaag agtataaaag gtggtgaaag tgggtataacg 240
ggcatttagt agggcacaga tgtatctggc atctggcgag tggcgagggt gcaaaggagt 300
gagggcaatg gcatacaatg gtaaataagt tatactaatag taattaccac cgtggggcta 360
ttaaagggcc acttaagctg atagcacctg caggggtaca ataggggcta cgtgggataag 420
ttggaagagc ggtgggatta ggccgaaagg gacgcaaacc atgactacat ccgcaacgga 480
ataggggatg agtatagggt gggcctggaa ctgttggtat atggcatagg cgtataggag 540
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<210> 5431

<211> 430

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072c05a1

<400> 5431

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ggaatgagat cggccgtgtg tgagcgagct tggctggtaa aggcattgggt cctgtcatcg 120
aatgcaagtt gacaactact gcctattgcg ttgccgtgcg gcatcacgat cgtgtcgaga 180
tcatgggtcaa cgatcagggt aacagatcta ccccatccta cgtggctctg accgtcacac 240
tacggatgat ccgtgatgcg ggcgcaaacc aagtcgatat gtaccctgcc aacaccgtta 300
tgaatgctat gcggttgatt ggaaggcgta tttccattgc atcagtacac tgtgacttga 360
cattgtagac gttcaagggt attccagccc ctgctgcaaa acctaggatc gtggcgaaact 420
acaggggggc 430

<210> 5432

<211> 460

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072c05d1

<400> 5432

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gggcagctgc aatggacagg agccggtaac gacaaatacc ccaaaactat agcccagaaa 120
gcgcacaaaa cgcaaagact aggtagatta gaagcatatc tgcagaggga aatggaacaa 180
cccgagggca taaaagtaac agtcattcag cacaagtggg tcatggagcc acggttgtaa 240
ggagcccgtt acgcttcagg gtatgcttac tgcagccatt agatggagat agcctgttat 300
ttcaagtatt agtactagct tgccaaatag tgctctgagc agcccaggat aaagctgtga 360
taatgatagt aggggagatg caaagctcgt ggatgtagta acggccggta tagtgactta 420
ggccagactt gctctaagac cagtgctaag ccgtggagga 460

<210> 5433

<211> 250

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072c06a1

<400> 5433

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ctaattggcca gagcattaga taaacactcc tatcactata gaaccaggct gatagcattc 120
atagaaccct ggcggtact gctctaaaga tgatagatcc gtgaccagta agtgctaacc 180
attcacaagg tctacgatgg gtcgccacga caaaaccact tgctgagata tatgtttgac 240
atacagataa 250

<210> 5434

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072c06d1

<400> 5434

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gggggggggg ggggtggggg gggggcgggg gggggcaatg aggtggacct gggaaaagag 120

cttggagaca agccccaaga aaaagggat cttctacacg catgatgagg gataggcggg 180
 accgtgaaaa ggcttacaag tgaagaccgg tatgagcacg gagttgactg agggacatac 240
 gtaccgaccg taaatgataa ggccaggagt agagatacta taaccagtgg ggtttaaag 300
 accaggctta aggtattaat tgttgccacg aatctcatta gagcagtggg gtaagccgtt 360
 tggagtaagg gtccccaaaa tgccagtagt tggccgaaat gggtcactaa aatcgctatt 420
 atgagccatt agcgcagtaa aaactgctaa gggtagcaac atgccagctg caggccctcc 480
 cgccaattat tggagcg 497

<210> 5435
 <211> 404
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072c07a1

<400> 5435

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 accgtcaggg ggatggcgcg tgaacgagg gtgagcgacc gagacaggta aaagagtgtt 120
 attgtcggct ttggaggtag tgcgtgcgtg agcggaagtg ttagtggtg cgcttaaata 180
 ctgttagcac aggtgcaggc gaggcgtgca agaggagcaa ttgcaaggca gctacaaagc 240
 tagaagctac aactacacac aaaacccgac aaaactggaa catagacacc caaaatgggc 300
 tggagaggtg ttgggggttt ggtggtgaga tatgcgatag agagatcgag gagcgctgt 360
 gtgataccat aaaactaatg aatacaagct ggtacatagc taga 404

<210> 5436
 <211> 515
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072c07d1

<400> 5436

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 gggggggggg gaaatacggc acaaggtagc gaaaagttaa ctgcctagaa gcttaaaacc 120
 tcgggggagg atagcagaat cagaagacag actcgaaggc ggagggaagc tgccgttata 180

gtgcgactac ataatagacc ggaaaagccc gcgagttaa cggaaacggat ggcgagacca 240
acctaata gta cctagctact ggtggaatta cgcggggcta gcttactagt aaggtttggt 300
aggcgtaaaa gaacccgagt tgttacatta ccactagaag tatggcgacc ctgcacgggt 360
ataactgtac tgctgcctgg cgtgcaggtt agcgacgtgg gccataaagc gccttgtaat 420
ggtatagccg acgtaccagt atcaaggctt ggtaagcgcg aactggctac cataggcatc 480
cggcgagcg agcaagtctc aacgtcaacg tgggc 515

<210> 5437
<211> 545
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072c08a1

<400> 5437

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caagctgtac gcaacgccac acctgactaa cagtgtggta aggctttcac cagcgcccgg 120
atatggcgca aatgctccca gatggggccg gctggtagcg ggaggatatct gccactacg 180
ggtggctgct ggcgctgcac aagaaacaca acgtaatagg gcggtcacag tcggggtttg 240
gtaaacacgg tggtagcag atattatagt tgcgagggat accgcacgtg gggcacaac 300
atagctacct gctgatcccc gctgggtcgt agtggaaaca tagcgggtaa caatggcaac 360
acgcgtccct aggtcaagga tggaacgtaa tactgcagac cctgaatgat ggaagcatta 420
actacctgaa caggcgcta agcatggcta ttagctact gtgaaacaac aaacagggtt 480
gttacggacc gggtaacgag cataatggct gaagccaaca aacgctttaa aggggacaaa 540
ggcac 545

<210> 5438
<211> 554
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072c08d1

<400> 5438

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ccatggggggg gggggggggg gggggggggg gggggggggg gggggggcg gggggggggg 120
 gggggggggg gggaagggag gggggggggg attccaaaca aacccccaaa acccaaaaac 180
 ccccccccaa aaaaaatccc tttaaattccc cttttaaaaa aaaaaaatt ttttttttcc 240
 ctttatagaa aaaaaaaaac ccccaaaatt tttttcccca aaaacccccca ccccaaaata 300
 aatccaaaaa attttctccc tttttttttt ttccccccct ttaacccccca aaaaaaatt 360
 aaaacataac ccccaaaaaa accccccgga aaataatttt attttccctt ttatagcccc 420
 cccccagta ccccccccc ctttttagccc aaattttttc ttgggaaaaa tttcccccaa 480
 tttgtttttc cccccgaaat ttccctttaa aaaaaaacc cccctttttt acaagaacc 540
 cccaccctt tttt 554

<210> 5439
 <211> 595
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072c09a1
 <400> 5439

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 aaagcgagta caaataggct tagtttgcta cgatgttggc gaagatgtag gggcagggtga 120
 gttgtgcgtg gcggttagtg gtaacagcaa acaataaagt tattaccgtt gaaattttgt 180
 ttaaggaggc cgaattggta tagctgcccc aaatgtttat agtcggtttg gtaacttttg 240
 cttaaaaagg agccatttag aagcggtaga aacggcccat aacgtttaat tcggcgacgg 300
 gttgttttgc aaatgctaca ctgaggttgt aaaatttagc atatgagtgg gctgactacc 360
 ttaaaaatgt gactggtaca agatagcgtg gagccaacga acccttgact cgggtgtcac 420
 gagccatttg aggcctcgaa tcgcaaaaac ggcgtatta tataatgggtg cacgctagta 480
 aaccgtcaca gcggtctgtt aggcaacaac caacacggac cacgagggcg caacgtatgt 540
 caaaaactac tacttgtatt cgcagcgcac aagtgcaagc aataccggcc cact 595

<210> 5440
 <211> 525
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072c09d1

<400> 5440

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gggggggggg gggggggggg gggggggggg gggggggggg gaaaaacgta aaattgggca 120
gggcaaaagt gcacgacaag taagagagaa agataggagg caggggataa gcatgtacat 180
agaaatagtg acagttagtt gaaggttgct aagaacaact gtattaagtt gaactaccta 240
agggaaaaac agaaacaatg aaaagcaagg gggtgaaaca gaaagcaatt agggcagtg 300
gaggggaggg ggggtgatgt aagtcaaacc atttgagggg aactgggcag aaagacctca 360
gaacggccga gactgactaa ccctggctgg tggccgacgc aaaccttaaa gagtgtatgt 420
agagtgaacg tagtaccaca tatattaaag ccaactgttt aaggcaacta agctatgaag 480
gcacttaaaa taaccttaaa gcgccgtaga tttaaggcaa gttta 525

<210> 5441

<211> 633

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220072c10a1

<400> 5441

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gtgacacggg gcacctggca ccaggttaca atcactcatt ggtggtcggg tgtctaaacg 120
ggaacgtagt agcccgaaac aaaacatgta tagtaatagg cgtagtaggc catagcggtca 180
tgtgccaacg taatgattat gccgtagggc agtgataact ggccaccgag gcataactcg 240
cgcaggcaca ccggtcacia ccacctgctg cacagcaata acaccgtagg taacgagctt 300
gcccgtggc ataactgtaa cctgcactct caaacaccaa ggattaggca gaggctgggc 360
gccaacgggc aaattattaa cgatgatgct atacgtagtc agctttttcc atagtcgcat 420
gggagtaaca atagcaggat gccgattgtt tacctgcagg cgctgcgttg gagtaggcat 480
gttattatgc cgccggggca actgccgagg gtgaaccagc catacatgtc gcactagctg 540
tggtggctgg gtatttggcc gcgcaactac agcagtgctg ctgcgaatag cagccagctt 600
atgattttca cgatgtgaac tgaccgagca gca 633

<210> 5442
 <211> 612
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072c10d1

<400> 5442

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 gggggggggg agaaaatggt cggagaaagg aaagctaata gaaaatagtt tgtactacta 120
 aaccaaagcc atgaaaattt gagactgctg gcgcaaaggt caaagagtgt acatgtgggtg 180
 gattagtaaa ataaaaaata cgatgtagta aaaataaata ctaagcaaaa ggcattattc 240
 ttcagtaaca attgacgggg caaacggatc ctgatagcaa agtcctacaa atggaaaaag 300
 agaatggaaa taaaatattg aacatgtgct aaccagaaaa tgatgagaaa ccacgaatta 360
 tcagcagcag tatagcgtg actaaaaggc tttaaagcta agtatgggtg tggcctactc 420
 cttggccgca ttggcctgtt ccaccccggt ggtgggtgtaa tatgtggcag catgttcata 480
 cttatacggg catctagcgt ttgtatacta aaatcattaa cccaccaga tgtacacaaa 540
 cgggtaatta ttagccctgg ccggccaagt agtggaatta gattgctagt attaggtggt 600
 aaaaagggcc ct 612

<210> 5443
 <211> 605
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220072c11a1

<400> 5443

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 ctattaaccg gggggtagca tacatccacc aacaatgtcc ggactactag taggggatgt 120
 gtgcatccct accagataga gatacgtaag actaccttga agcgtgcaat acaggattgc 180
 gtatggcggg taaatgtag gtatgcgaag aatccgatcc ctagctacag attacgctag 240
 ctagggccgg ggctgtgca ttagcagctg atggtaagct aggtaagagt gcacagagtg 300
 ccaccgatcg ggggtggtag gcaactgcac cagcgtaggt accagctagg gctatacgcg 360

aggcccccat gtggcacgcg ccgccactaa caaggataac gataacggaa cgcgctgtat 420
 ttgcaaggct aatggacggt acgaaaacta gcaacggatt aaataactgg cagccccaag 480
 gctacatgcc tgatgagtac gcgatcacag gtcgagctgc aacaccaaac acatgggngc 540
 cgcatacggc agcggttaca gcagtaagtc acgcagcaca tcgtcggcag cattcgcaca 600
 gcgtg 605

<210> 5444
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072c11d1

<400> 5444

cggttcgagt tggccagcag gtttgccgtg ctacatgtga gcacgtccgc ctgcttgggg 60
 gggggggggg gggggggggg gggggcgggg gggggggggg ggggggcca ctaaaagggg 120
 ggagtttaga gcgaggaat taaccagca gcaaagggt ttctatagg caacccaaaa 180
 tatgtccgga gccttagaat gtatgagtat ctgcaaagag gatattgcct ttgggggtata 240
 tggtagctga gctattagtt gagctaggga tatggggtaa gaggcccaa aaagtaccaa 300
 ggggcagtat tgaaaatggt ggttggggtca ggagatttta ctggcttcaa aaaccacaaa 360
 agtattaacc attagaccg aaactaacag agcataaaat gccaaacggg ctttaatagc 420
 gggtgctaga ccttaacgga aaggggttaa atgtcggcgg gagccctgga ttgcttgggg 480
 accaaa 486

<210> 5445
 <211> 519
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072c12a1

<400> 5445

cgatgacgag gacggtgcga ctattgctag aatgtccagg tccgtcacag cgggtggggc 60
 ggaagcagag cgcagagcat ggcgaggta gaaaagcggc cgccggaata ataataggta 120
 gatcttgggg gacttaaacg atcgcaagat tgaagggcac cggccaattt gcaacgcaac 180

accaaagagg ggtgcagcct tgtgggtata aaaaaacgca aaatgagggc caggctagta 240
aaagccgccc cgtggctagg tagaataaaa aaatggggca ggcgggcgcg cgctggctcg 300
agctagcgcg tagcgcgca aaccaggaca cggacattgg ccgcgacca acccgagctg 360
ggacgccaag gtcagttacc cggaaataag tttgccaac aaggccaagt ctggcactga 420
aacgcagcgt gctgaaacac gcgcggacag gcgaggata gcgtgggtta gggctagggg 480
tagactttgg ctgggtgacg ggtaggcatg gagcgcggt 519

<210> 5446
<211> 565
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072c12d1

<400> 5446

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gggggggggg gggggggggg gggggggggg gggggaaggt aaaaggtgga gaaacggtag 120
gaaaatagca ataccaatac ccgtgacgat aacggtacga tagcgacaca acgaggacta 180
ggggtgatca ccacctgaac aaacacaaca gcatataaaa gttaaaataa actgttaggg 240
aacttagctt gttatgtcgg ctgcgttgca ggagtgccaa cacactgaag ttaacaaacc 300
acaatataga acgtaagcca atgacaaact aaccctgagc aaaagctaaa gcccaacata 360
gcgaaaggta aggggaatata tgttgagta catagtattg gactgtaact catattaagg 420
ttgggtaccc aggcgggaat ttgccagtca aggttatgaa actagatttg ggttgatatt 480
aaccgtgaat gtgaagttgg gatatatagc atatagctag atctagctat atataaatag 540
ataaaacggg ggggcggagc aagct 565

<210> 5447
<211> 547
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220072d01a1

<400> 5447

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 gccacaagcc tcttccgacc tccccgaagg caccaactgg cgctacagcg agttcttgaa 120
 cgccgtcaag aagggtaaag tcgagcgagt caggttcagc aaagacgggt ccgccctcca 180
 gctaaccgcc attgacggcc gtcgcgctc cgttattgtc cccaatgacc cggacctcat 240
 cgacatcctc gccatgaacg gcgctgacat ttccgtcgcc gagggcgaaat cccccaacag 300
 cttgttcaac atcataggca acttgctctt ccccttactc gcattcgcgg gcctgttctt 360
 cctcttccgc agagcccaag gcgggcccg cgggcctggc gggctgggag ggcccatgga 420
 cttcgggcgg aacatgtcca agttccagga tgtccccgag accggcgtga gcttcgctga 480
 cgtggcangc gcggaccaag cgaagcttga attacatgag gctgctgatt tcttgaagaa 540
 tcccgat 547

<210> 5448
 <211> 573
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072d01d1
 <400> 5448

gaagtgcgtt cccgagtaga tttgccgttc tacactgttg cacgtcctcc ttcttggggg 60
 gggggggggg gggggggggg gggggggggg ggggcagcac ggcccacaaa gtcccacgaa 120
 caactgagag gtggatggca gaaaaggaca gaagttatcg acaaagcgta tcagaacagt 180
 taaccgggta ctaaagaatc aaattttaca taaagggttt attgtattct ggggtgggtcc 240
 agcaaccag aagtaaaggc agagcaataa agcataaaaa tactgctatt gaaaggagga 300
 atggaggtct gcagagggtt atgggtggaa tgtaggggtt ggcctaattg tacaaggggt 360
 acaacttaag tgtgttggtg aggcagctag gggactgcac ccgcggttac gccaaaaaca 420
 gttagtatta ggggttatgc ccatagtagt agagggaggg ctatgcctag agttaggctg 480
 agaagggcta aacttagggc agcgcaatgg ctagggactt atagggggag ccttgcaaat 540
 ggtttggcga ggggccaaag ttatgcaaat aca 573

<210> 5449
 <211> 529
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072d02a1

<400> 5449

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gtaattgccc caagttttcc tgctcattgc tttcttcctg atgtgggaga aaaaattagg 120
gaacatgggc cggaatatct ccaaaacatg cttgggcctt atatgcttgg aaattcccag 180
gaaggagtgc catttataag gcatgagaag gttcttgcag ttttggattg cattgactct 240
ctggattcgt tgaaagctgc tcttggactt actcctcgct ttgctcctgg aagtcaagtc 300
ttcattatag ctccagatat aactttgctt gaaaataatg gaattgaaaa ggtatatgaa 360
gtaaaggggt tagacaagac atcggttat caagtgcttt gcctagaggc tttcagttcc 420
atgaatatga gtttcaaata catggacatc ataagccgtg ctgaaacttg tgctgatggc 480
aatccttggtg ctttgaaagc tattggctcc agttttcgtg gaaaaacaa 529

<210> 5450

<211> 603

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072d02d1

<400> 5450

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gggggggggg ggcaatagca caataccggt aaggggtaga gcgctaagct aatagaaaac 120
ctaagctgca agctaaggct acgtaagaag catgagcagg tgggaacatg gctgtggcgg 180
ttacgctagt gcgagcgggg ctgcggtaag gttgataagt gaaatacaat acgggagtgg 240
gcttaagctt aagacgagta aacgaataaa aaataacaaa caaaataacc ccgtaacgag 300
tagcagtgta gacagtcagt ttgtatagta ggtaaacgag ccgggaggag aaactaagaa 360
gaactgtgat atacactact aggggccacg tagacagata gaggtagtat ggttatggtg 420
gcaagttatt agctggcttc aatggcttag ctgggttagc tggcttcaat ggcttagctg 480
ggttagctgg caatggattc gctttcgctg ctggcaaggg gttagcgctt agcgactat 540
tagcgctaga ggccttagag caattagccc acttagcaca catagccgca ctattagaac 600

<210> 5451
<211> 528
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072d04a1

<400> 5451

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cttgggtcttt ttcttgaatt caagtaccaa agtttgagtc ttttccgact ttgggtgaac 120
cccattgaag gagccgcac tgggtgttcg tgtgcatgcg ggTTTTGCCA aatctttaag 180
cttttcccca ttctgctgcg acccaattga tggaactcta atgggttctt tggaatcagg 240
gatctcattg aagaaagggg gcttggttcg ttctcagttc agcagaaaag agaagaaccc 300
tttttctcac aggttcagat cgagcttctc gaggttgctc ttcaagaagc tcgattacgt 360
gcaatggatt tgcacggtgg tgggtgttct gtgcttggtc attgCGTTCC aaatgttctt 420
gccagggtcg gttttggaaa actccgatga ggggtccttg gaagctgtga gaatgccgtc 480
tgataatttg ctccaatatg gagacattca cgattgtgCG ttggacat 528

<210> 5452
<211> 551
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072d04d1

<400> 5452

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ggggaccgaa gacttaaggc acgagagggg gtgggtggtt agaactgaga ggtaaagata 120
gtaggactgc aaatgctacg acgccagtga gggggggcac aagcaggtaa tgccgctgtc 180
gagggagtga aaaagcgcgg ctggtggaag ctgtgagggg cagagcgtag agggccaaaa 240
ctggtaaata aagcttatgc ttaggcggtg ggaaaaggcc ccctgagggg gcaaatactt 300
ggaccgccac aaattgtaca gccaaactgc acaagagggt caactaaaca gctagagtta 360
gtaaggctgg tgcaacttag aacaggTggg ctgcgctggt gtttgaggca cctaagcggc 420

taacttaacc cgcagagggg tttggggcac agtatggtga agaaaagggc gtgtacaatg 480
 tgaagaggag ttgggcccaa aacaggctta ggtatttgcg tagtaataga ggggtgcagt 540
 agccaatag t 551

<210> 5453
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072d05a1
 <400> 5453

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 tttctctccg acagcctctg tcggctccat catcttccaa aaccctccca aaggccttct 180
 tcttctctcc cagcagcagc aacaacgtc cttcgctct tctgcatgct atgcaactct 240
 ctagctccct cgcgccttcg cactttctcc aagtccctc ctttccaata gggagaacaa 300
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 atgctgtatt aaactactct c 381

<210> 5454
 <211> 395
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072d05d1
 <400> 5454

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 gggggatttg cccggaagga aagggcaccc caagcaggaa tgatgataaa agcgtggatc 180
 aggaaaagtg aatgcatgtc atgaacggt aacgaatggg ccatacagtg ggacaaacaa 240
 aatgacccca aatcatagga cagaatgtcc cattggagca tttggtgtgt ggaattggtc 300
 gaaacctagg gctaaacttg tagaagcggc tattattagt actagttggc aaacagctaa 360
 acgttaagta cctcgaagtg ctaatctgtg gtctt 395

<210> 5455
<211> 482
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220072d06a1

<400> 5455

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cacggtgtgg gccgctgccg tgcccggcgg cgccgcaagg cttaaccctg gcgaatcgtg 180
gaacatcagc gtgacgaacg gcacaacagg aggacgcata tggggtcgaa caaactgcac 240
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caacaaaaca ggtacacccc cgaacacggt cgttgatttc gcgttgaacc agtataacaa 360
cctcgacttc tacgacatct ccctcgtcga cggtttcaac gttccctac agctgacccc 420
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gc 482

<210> 5456
<211> 554
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220072d06d1

<400> 5456

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ccaggcttaa gatattaatt gtttccgcga aacgcattag ggcaagtggg gtaaaccgct 360
tgagtaagg ggcggcacaa tgccagtagt tggccgaaat gggccactaa aaccgctatt 420
atgagccatt agcgtagtaa aagctgttaa gggtaacagc atgccagctg cagggcctcc 480

cggcatttat tgggtcggat caaaagtagc aggaagccag cccggtgcag accttgtagc 540
aggctgaagc attc 554

<210> 5457
<211> 460
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072d07a1

<400> 5457

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cgcaaagtct gcaagatgcg gccggctggg agcgggaggt atctgcacac taccgatggc 180
tgctggcact gcacaagaaa cacaacgtaa tagggcagtc acagtcgggg attggttaca 240
cgggtggtgag caggtattac agttgcgagc gataccgcac gtggggcaca aacatagcta 300
ccatgctgat acacagctgg gtcgtagtgg aacaatagca ggtaacaatg acaacacgcg 360
tacctaggtc aaggatgcat cgtaatactg cagaccctga ctgatggacg cattaactcc 420
ctggacagtc gccttagcat ggcgatttag ctacggtgaa 460

<210> 5458
<211> 497
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072d07d1

<400> 5458

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gggggaggat agcgagaatg agaagacaga ctggaaggcg ccctcaagct acccctatag 180
cgcaaaaaaca tgatatacca gaaaagcccg ctagttagac cgaacggaat acagaccaac 240
ctaataacc tatctactag aagcgattac ccgcgacaag ctaactacta agatttcaaa 300
ggccaaaaat aacccgagaa gtttcattac caatataatt atggcgaccc tagcaccccc 360
ataactgtaa tgcagcctaa cccccaagtt agcgacctgg gccataaatc gacttgtcat 420

tttatagcca accccccagt atcaaccct ggtattcgcg acatgtcttc cataggcaac 480
ctatccccca aatcaag 497

<210> 5459
<211> 448
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072d08a1

<400> 5459

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cgtgatagta acaaacacat ccaaagaaac cacagagaac gcacgcagag caatccccca 180
ccgcagggag agaaagccgc agcaagagca gacaacaaac acacacaaaa aggcacacgc 240
gtaaggactg cggggcatgc ggggaacgcg tagaaagtac taggttaaca aaaaacagtg 300
ggccatattg tgatgccacg tgatattaac aaacacagca cacagagcag accgaagcgc 360
agcgaaggca acacacagac acccaaagga ccacgagtaa gtaccgggga caatgcgga 420
cgcgggagaa agggatatgc tgggacgc 448

<210> 5460
<211> 555
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072d08d1

<400> 5460

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tggggggggg gggggggggg gggggggggg attaaattat agagaggtga gaaggtagtt 120
ggggcaccaa ctggcgagaa aattaaacag acgcgagcta cggttgagat gttgcctgca 180
aaacacagaa tggagaacct aaaaatgaaa aagaaagaaa gaaagaagaa ttagactaag 240
ccagataaaa ggaacttata acttatagca acgaccggcg ttaaaaacgc atgctaata 300
accttaaaat agagccttag actagcagaa tacaataggt attggtatta ctgttaaata 360
atgctctcag ccgcttgaga cttaggctac cgccaacgct agaggcaacc acaactatag 420

atgcagataa cccagtgccg gctattaagt ttaaggcccg gctgttggga agaatagaaa 480
 gatttaaaag gcctacaaaa agagagtcaa tgatgagaag gttgagaatg cgttaaagcc 540
 aacgagggct gtttg 555

<210> 5461
 <211> 623
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072d09a1

<400> 5461

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 ttggtgcttg gagagcgagt tagccagtaa gagggtgaac cgggcgggag gtgtctgaag 180
 catttgccgc tgcaacgatc caacggcccg gcgctactag ggcggtactg aaggcaacgt 240
 tctttagtgg gtggccactt atagggatcc aagcgcagac aagatagcgg ataacgtaat 300
 aaccagatac agcagcaacg actttggcaa cttgcgcaag gggccgtgct ggaggcgagc 360
 ctgtaatgct tattgcaaaa tggaacacaa ggtggctttt cgtggagggtt acgaggcagc 420
 ataaatagcc tggagctaca gcagcagcaa gtactgaggc aactgcacca acagccggtg 480
 taattgcagt cacagtacca gtggaaattg tcagggtatc gagtaaccg ggtagccagt 540
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 gctactgctg tggcagaggt ggg 623

<210> 5462
 <211> 331
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072d09d1

<400> 5462

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 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggc gggggggcga 120
 ggagcgaagc aaagccatgg ataagtggaa acaactacca caaaaatcaa aaaataaaca 180

tataacccat taataaaatc ccccatacga tgtaccaaaa atagatactc agtaaatttc 240
 attaccccc attaacattt cacttttcaa acttatcctg atagcaaaaa cctaaaaatg 300
 cacccaaaaa ccccatctac aatattcccc a 331

<210> 5463
 <211> 599
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072d10d1

<400> 5463

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 gggggggggg gggggggaag gtgggaggga gcaggaggat cgggggggtga ggggtaggaa 120
 ataacaccaa agaaagtgag ccacctgagc tagaaagaga agagtatgga ggtagtattg 180
 gcgtgatata tagccagtgg aaggaaaagc taaaggggca ggagacgaca agaagtaaag 240
 gtgaactaca acaccgaaac ggaaacggcc tatacggcct cgctgttaac aacaccact 300
 ccaacttaac ttggcaccga cttaacgtaa aggcgactag cggcgggtgtt aatgcagcgc 360
 tgттаaggcg caggcaacga aggccggcac aagaatttat tataaagtta atggcccttc 420
 gatggcccggt gcagttacta gttataaaat ttaactaaag gatagtagga cgagatatta 480
 ggcaaggctct attaagcagc tgttatatta tggtagggtgc tactatgaca gggagcgtac 540
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<210> 5464
 <211> 604
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072d11a1

<400> 5464

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 tagggctgct accgtgcctg gcgcaaccgt ggaaattggg tgcgctaagg gatgtagtag 180
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caggggctaag ccataccctg ccaggacggc cactacagcc gtttatatag ggcgcggtgg 300
gacagcgat agggagccta gcttgcttga atagccgccc cagcctgttg gtgcagcaac 360
ttcaatgggg ttatagccgg cttatgctac tacttaggaa gcagtcattg acggcgggtt 420
cagagttaac cccaaagcct agggcgcggt aatgattaat gccaaagaaa ccaatgttgt 480
ggcacaggcc caaacgacc agaggcaggc aaacccaaac acgcctgtgt ggccctgagc 540
cagtactgcg gtacaatgcg gaccagctac tggttggacg ccaatagtag ccgggctcgc 600
gaat 604

<210> 5465
<211> 527
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072d11d1

<400> 5465

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gggggggggg gggggggggg gggggggggg gggggggggg gggccggggg gggggggggg 120
ggggggggccc atggatagaa aaccgtaaaa ggggttttgg gagaattacc cccgggatta 180
gggcatcatt ccccgtagag atgcaaaaag ggttttccgg gttaggatgg gcctaaaggg 240
gaggatatcc ccccaaatac ccgggcttgg ccatagcccc caaacccaaa aaggcaattt 300
tggaaggggg ggaaaatacc atttggaccc ttttgtggcc ggcttttaaa ggccgcaata 360
tgccccttcc gagcccaaaa cccgaacat tcccgaaaca aaaggcccta atacccagc 420
tagccctcaa ggaatcaatt cccaaaatga ggccttttta tggaaggggc ttagtgagaa 480
ccctagaaac cctttgcaat tccctaatac ccaattaaa gttgcta 527

<210> 5466
<211> 545
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072d12a1

<400> 5466

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cagttgtttg gtcgacagtg taagtcaact ttgtaagggg tctagtcata gtcacctgta 180
tcgtagttaa ttcgcttgta ttctatccag atggctgcaa ttctcgtctt cacgatctta 240
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tctgccaccg gtgccagtat gtcgtcacct ggcgcggcca acgcctctac tagggcccgc 480
aaactcggcg ttcaattagg ctgagccagc ttattcaagc gcgtcggaca gctgcctctc 540
ggtgt 545

<210> 5467
<211> 631
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220072d12d1
<400> 5467

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gggggggggg ggggggggga tctgccttag ccattaccgc caatacggct acacggggga 120
ataggaagct agttaatcgg tgtaattaca aacgaaaaaa gcgatatgtg tggttttggg 180
gttttgagg aaagaatata atggaaaaat acccccctac gggccttata cataggcatt 240
cgacggtagt gtatacgtcc taataggaaa agccaaccaa ccaagaattg cagatagggg 300
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agggactaag gataaaaaaa aaaccagga aaagcacaat accctgcgcg cgcaggaaca 420
tctgctacag gttggactaa ggggtgtcct tgggctaagc attgttgtaa gattcttaat 480
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cctaatacgtt gttggtaatg taatagaggg gttgccctta ttacgcaaca tggtaactaat 600
agccaaacct gcctggaaca agtctgcaag t 631

<210> 5468
<211> 418
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220072e01a1

<400> 5468

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ctccacggct tacctgatct ctggtactca tggcgccatc agattctctc tctgagctgc 180
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ctgggtgtcc aacaagtgtt ccttgtgact catgactggg gagccatcat aggttggtat 360
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<210> 5469

<211> 526

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220072e01d1

<400> 5469

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tttatcgggt taacccccat tttcccaaat ttttttttca accctttaac tggcgtttgc 240
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ttggaagggg gaacaaaaaa tttttttttc cccccaggg gtagaatttt gggccaataa 360
gggaaccctt tttttacccc tgtaaaccct ttgccaaacc tagggcccgt aggttgcaat 420
tgcaccgcg aaccctgct atacctttg ccgataacct ccggtttaaa aaaaaatccc 480
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<210> 5470

<211> 540

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072e02a1

<400> 5470

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tggtggacga gagaagggac agggagtggt acatcttaaa ctaccaatgc tacaagcccc 180
ccaacgacag aatgctcggc accgagttct gtggcaagct tatcagacgc accgaaaacc 240
tgggccccag cgagtaccgc ttcctcctca aagccatcgt cagctccggc atcggcgaac 300
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acgtctcccc ctacgagatc gacgtcctcg tcgtcaacat ctgcatgctc gccaccgtcc 480
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<210> 5471

<211> 604

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072e02d1

<400> 5471

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atgtagggtg cgagtaggcg gcgtaggctt ggcggtacac gtgggagaac aatataagag 180
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acattataac cactaccacg tatagtatgg caaaggttac taagagtacg ctaacgttag 420
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aaacccgtat tacagagatt tgctaattgg ctgcttagac gcataggtgt actaattaga 540
gtatcagaag gaagcgggtg aagtatacca acgctaggaa cagtagacgg cgtagtacta 600
gcac 604

<210> 5472
<211> 318
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072e03a1

<400> 5472

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ttatcggacc cttggagaga attataatga aagggtttta ctttcaatca tacatgatac 180
tttgaaagcc gtggctgccc agttcattgc cattctggtc attactcagc gagaggctgc 240
cagtcttgaa atccggaaga ttttgactga aagggtgct aacttcaata ttgcataga 300
tgatgtgaca tttactag 318

<210> 5473
<211> 516
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072e03d1

<400> 5473

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aggaagttag gctaaaacag gtaaaccggt attcggtagc acgtgaagta acatactgag 180
agttcaaggg atcaaaatag aggtacaaca gcgagttgca aaggcagtcg ggataactga 240
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gagccgagcg ctaagtgtgt cgctactggg gagggttgg atgcgcagaa aactgccagg 420
cggcctaaga cttgcgttaa ggacagccct atgggggctg gtgtttgctc tgtgcaggat 480
acgagtgggt aggcgttgct gtacttgggg tgataa 516

<210> 5474
<211> 166
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072e04a1

<400> 5474

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tcttaagctg atcgactaag acatctcgcc tcacctgctg gaaaggatga atattcagag 120
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<210> 5475

<211> 610

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072e04d1

<400> 5475

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aaacggggcc ataagaggtc aggctgacca agcgaaggaa tagttcatgg caaccgagcc 180
gtgtgaagcg aaaaataaga aagataatga gaataactga ttggggtggt ataactggct 240
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cgtacagagg gattgatggg agcatacaga aagtgctacc tataagaaag acttataaag 360
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ctgtactgct gagccaccag cttgcaggtg ttcggggcgg agctgctaaa attgctaaaa 540
ctgtaggtat gtgcttacgg gtacgatacg tggctacggg gccactacat cgtcactggg 600
ttgcaccagc 610

<210> 5476

<211> 569

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072e05a1

<400> 5476

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 aagagaagtt tgggtggcctc agagatggat attatatcca tgggcaatgt gcgattataa 180
 tgtttgatgt tactgcccgt ctaacataca aaaatgtccc tacctggcac cgggatcttt 240
 gccgggtctg tgaaaacatc ccaattgttc tttgtggtaa caaggttgat gtcaagatca 300
 ggcaagtga ggcaaagcat gttaccttcc acaggaagaa gaatttgcag tattatgaga 360
 tttcagcgaa gagcaactac aatttcgaga agcctttcct ctatttggcc aggaaacttg 420
 catgtgatcc taacttgcac tttgtggaat cttctgcatt ggctccacca gaagttcaaa 480
 ttgatttagc tgcacagcaa caacacgaag ctgagcttct tgcaactgct agtcagtccc 540
 tttctgacga tgatgatgaa tcttttgag 569

<210> 5477
 <211> 563
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220072e05d1
 <400> 5477

gggctctcca gcaatttgcc gtttacctgt gtaggagtg cgcttgcttg gggggggggg 60
 gggggggaaa aggtaaaagc taaagtgaga ggctaaatga ggccacgagc aacacaagaa 120
 aaaacaagca taatagtata aaagggaccg gtataaagta ggatgggaaa aaaacaaaca 180
 accctaaaat attgagaact tcacaacaaa aagaaagtta agagaaagga tacaagaaca 240
 aacaaaacca caagaacaaa atagcagggg tttttggaaa aagtcagtaa tgggctagcg 300
 attggcgtgc gcggctgcca ctatgaaaac aaaaaagcaa tacctattaa aagtggttag 360
 ggcagggcac agcagcagta aacaagatga ggggcggggg tgggaatata cgcataggcg 420
 gaagggattg taggatttgt ttggtaaatc aataattata ttactgccg tccgggtggt 480
 aacggcttat ctttcgctg ctccgctta tatctaagaa gggttgatac tagttaatct 540
 agtccaaaga cctggaagca tca 563

<210> 5478
 <211> 542
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072e06a1

<400> 5478

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tgaagtgatt gaaaaaaacc acatactcat tcttggttgg agtgacaaat tgggctcact 120
tttgaagcag ttagcaatag caaataagag tattggtggt ggtgttattg cgggtgcttgc 180
agaaaaagaa aaggaggaaa tggaaatgga catagcaaag ttggaatttg atttcatggg 240
aacatccgta attttagtaa gtggcagtc tcttatactg gctgacctaa agaaggtttc 300
agtttctaag gcacgtgcaa tcattgtatt agcttcagat gaaaatgcag atcagagtga 360
tgcacgtgct ttgagagttg ttcttagcct aacagggtga agggaggggt tatgggggtca 420
tgttggttg gagatgagtg accttgacaa cgaacctctg gtgaaacttg ttggcggaga 480
actcattgaa acagttgttg cacatgatgt aattggacgt ttgatgattc agtgtgctct 540
ac 542

<210> 5479

<211> 517

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072e06d1

<400> 5479

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gggggggggg gggggggggg gggggggggg gggggggggg ggaaaacccg gaaagaaggc 120
tgagaggtgc ccaggaacaa aaaactaaaa ctggcccctt tgataaggct aaatggccca 180
acaatatggc tttggccaga agcccaccag ttcctgcacg gacacagtac tggtaatattg 240
ttggcaccaa tgcattccag gctaaggag caactaaacc gcctgtggca caatttgcta 300
aactaatatt aggaggttgg gccaggttat tagatagagc ctagagtga aagggtatgc 360
aggaatagcc gacagaagca aaaaacttcc cctggtaacc cagcttgagg ccgtttatga 420
atcggccagt aacatacccc gagataacct gaagaggtac aataacttgg gccaccaata 480
agtagtaatt cgcaaattag atggggaggg ttaaatt 517

<210> 5480
 <211> 430
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072e07a1

<400> 5480

cgatgtgtta cgatctattg tgtaactgtc caaggtcctg tcacaacaat ccgacatcga 60
 ttaaagggcg ctaggcgaca gcccacacta tcgacacccc ccttgagggc ctatcggtgc 120
 acaagcaagc agagcccact agatgctaata cctgttcgg gtgctcttta taagtagcat 180
 atagtgtggg aatcaacagt ttgttggtgc taactatggg tatcatgctc catagcctaa 240
 gagctagtgt caggcttgga ttgacaacag gtaggcataat gcgactaggt taggacctgt 300
 ttcacgtcaa atagtacca gggataaata gccgggagtt accgcttcag taggttagag 360
 gacactaggc tcggcatcgc gtttcttggc ttacgaatgc gtcctaaaac tggaagtttg 420
 agtaaccttg 430

<210> 5481
 <211> 495
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072e07d1

<400> 5481

gtcatcaggc ttatcccgcc aagctacacg tgtaggactg ccacctgctt gggggggggg 60
 gggggggcga caggggtgga tgagcagagg gggaggtatg gattaccccc aaaggggccg 120
 gtagcatttg agccagttat gcggggtgat tccatgttcg cgttgacagt aaacagtgcc 180
 cattactcta acataactga aaagtgggtc caacagagat acctgataca aagttaaagt 240
 aagacaacta ttagaacctt agcggactga tactaacgat gagactagta cacagttgct 300
 gagtacattt atgcgctgtg gtaggaattg gctccagtgt atgttgaact taagttataa 360
 gccgcaaaag ttgttggcac ggccaaaaca tacctgtaaa actgtgtagg ccacgccaca 420
 atagcttaca gaagcttatt tggggtagca acatggccct gcataacaca aagctagccc 480
 cgctactgct ggcca 495

<210> 5482
<211> 566
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072e10a1

<400> 5482

gctcagctac gccgtatctc tgcgaatgtg ccagggtccgt cactgggatt tataaagaat 60
gatgggttatc gggttaaattc ggcgtgtggt cagccagtgc cgttaggggc gggaagaggc 120
accgtgtgac tgcagtggaa gctttgatgg atctaagtga aacgtagata gttagatagc 180
tgtccgttga atgtgggtta acaagccaag cgggggttag ggagtattaa attattatgg 240
atagtaaact gaagaattta ttaattgtga tagattagga ggtgtattag acatatgttg 300
aatagattaa aaaatataga gcggcgacat attagacaca ttatattaat agtgacgggc 360
tttttagcact taatgacagc gaaagaagct aggggctagc acgtgtggac agaacaccgc 420
ggtagctatt aattataacc taaccgatat aaccgaagag agccgtggga ataaattttg 480
gccatataat agcatcgcgt caaagttggt agtatagtag agcgtggtag tataacggaa 540
actcatttag ttggcggtag acgcgt 566

<210> 5483
<211> 534
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072e10d1

<400> 5483

tatctagctg cccgtgattc gcaatgtagc actgttggac ttctctctgc ttgggggggg 60
gggggggggg ggcggggggg gggtaggggg gaggggtggg ccccaacgcc caccagtata 120
aggagttgga tagggacgtg caagagggag ggggggtaga agcccaatgc agtgtgggtg 180
ggtggttaaa ggccagggta tggttacatt ttgagtaggg tgttagtcgt aatagagga 240
atgtaaaccc agagagggta gcaggctatg gatttgaagc ccagatgaag ctattttttg 300
aagccgaaag gtaaggggga cttgaatgat tggggaatgg ggcctgggca gtccatttta 360
gccgcttatt gattttgaat agttacgaga gcggctaata aggtaaacct tgaaggcccg 420

tatagctagg gtgcccccta tgttcgaaac aaagtgtatc ccagggttag gtgggcccac 480
 ttaagttgga gctcgggtta attagcgggc ctatgctacg aggtagcgtg gcc 534

<210> 5484
 <211> 550
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220072e11a1

<400> 5484

cgatcggttg ccaggaattt tccgtatgtc ccaagtgccg tacactgtca cttcgtacgg 60
 gtattttgtg ggggtgtagt tgaatagtag acgttgtaca cctgacgtgg ttgaggagta 120
 taaataagcg tgcatacgta acaagtgcac aacaataggc acagagccaa cagtacaaa 180
 ggcagtaacc tgtgccaact gctgtcaccg aagccgatta ctagcagggt gtgcagaagc 240
 ttgttatctc agtaaagggt ttcccgtatg aacagcggcc cacagcaagg gccaatgctg 300
 gtaaatagta aaacgacccg caattcatac gtgcgcggcc cacttaggat ggtgctgtac 360
 tacaccggca aatgagagaa taaccgtttg ttaaagccgg gccggtggga tatgcccaatt 420
 agtcgtatgc aacagcctaa ccaaaacaac cgcataaggc aggggcactt gggtaaattg 480
 agtaagctag tatgcgattg tgcgcagaat aacgggtata tacaactatg caagcaatgn 540
 ngacaagtgc 550

<210> 5485
 <211> 555
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072e11d1

<400> 5485

atgaccgatt gacttaccag gagatttgcc gtgctagcat gtgagcacgt cctcctgctt 60
 gggggggggg gggggggggg gaaaatatgg tcaagtagca ttgttgaca ctgagggtgg 120
 caacaagtac tctataagt cctacacggc ttagagctag atagccatga agactaaaaa 180
 gctaaaagcg agcaactaga ccaaacccaa aaacgcaagc agatatagt gagccagtaa 240
 aaattaaacc ctaaactga acgtggacaa ttagaagtaa gaagagttaa agtagggggc 300

aaccttttaa gtggttaaaa taaacgaacc cgggtgctacg aataccaatg gaagtacaag 360
 ttgtagatat ggtgttagta gtacagaatg tagtaaagca gtgcagcgta actgccgaat 420
 caacaagggtt attaagetta ttaaatttgt gctacaaggc ccactttgtg gcacagggcg 480
 gccgtataaa ggttaccac tagttaaagg ggggcgatgt aggcctaaat tatgtcacta 540
 accctagtg tgttg 555

<210> 5486
 <211> 593
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072e12a1

<400> 5486

gatgagagga cggtagcact atcgctgcaa tgtccaggtc cgtcaccgct attatgcgcc 60
 tccgggatcg cttttattat aatcccagtt catcatttca ggagtaattt cccgtaccag 120
 ttcaagtgcc ctaactgcct tgtgcccaca cgctggcggg ggcgcctcca caaacagggc 180
 tgcaacccta caccgggcga tgagaaccac ggctggcaca acacgcatgc cgtgccacgg 240
 cgccagcgct ggcacatgaa ccatcaccg tatcgtgggt agagcggcca gttcaatgcg 300
 caaaagctga acctgggctg gaattacagg cgggtaggga gtaaatacca ggcaatcggc 360
 ggagcgcgcg ctgtgtgctg ggggggagcg cggggaagga gttgggggac ggcgtaagcg 420
 aaggcgcgag ctaggtgagt ggcgagtcga gcagtcgagt aagtaacgga aacaaaacgg 480
 cacgagggaa aaaaaaaaaa aaaaaccctc cttcgtcatg acgcactgtc gtcatttcgc 540
 aaggaagggt cgattccgat tgctagctcg attactgggt ttgagacgca cgt 593

<210> 5487
 <211> 592
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072e12d1

<400> 5487

caattgagtt caccaggaga ttgcccgtgc tacatgtgag cacgtccgcc tgcttggggg 60
 gggggggggg ggaaagatgt aatgggggtg gaatggcagg cagatcagta gatcagataa 120

cagacaagct agatataagg ataggcataa tgaaaaacca gaaggaaaat atagaaaaaa 180
 catacacact atatatagaa taatcggtaa gttgcgggca gaaagcaa atagtccgga 240
 actaaacttg gactaggggt atacggcca gttaatagag caaacatcgc atttgcgtt 300
 ggacgtgtaa ctatagttat aatgttacat tacgtatgtg gtgtaactaa tgttgagac 360
 gataaattgt gctttggtac taaagttggt gttcttataa aaataactat gtgtttacac 420
 cttactggct ttacaggtcc agttgcattt cccggcagaa gtcccgctcg cagtttcgg 480
 cgccgcccct atcgaaattc ttatactgcc gctattgtca cttcaagggt cactggatcg 540
 atctcgctag ctcatcgtag actgtggtga gacgcgtatt gaaaggtaag gt 592

<210> 5488
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072f01a1

<400> 5488

aaactcaaac gaatacgttt tctctttctc ttcaatttca cccttattag catagcatat 60
 tcatttcctt ttcttgaatc gttcttaact gcgagagggg atatcagaga agttgatcgg 120
 cctcccatta ataacagatc tgaatgatct gatggagtct aaaggcggga agaagaagtc 180
 gtctagtagt aagtcctttt tgcaagaagc tcctctcgat tacatcattg aagacgttcg 240
 accacacggc ggaatcaaga agttcagatc tgctgcttac tccaactgca tccgcaagcc 300
 atcctgagat tgcctaagtc gaggggaagac gtagccccct tagtcctgca tctgctatat 360
 gtttctagtc tcttctcttc tcctttttct tggtcgttc cttgcccttt tgg 413

<210> 5489
 <211> 478
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072f01d1

<400> 5489

ggatcgagtt gaccgaggaa ttaccgtgc tacatgtgag cagtaccacc ttcttggggg 60
 gggggggggg ggggggggga gggggggggg ggacatcatg aaaagcgca gggaggaggc 120

atgtaggggtg cgagtaggcg gcgtaggctt ggcggtacac gtgggagaag aatataagag 180
 gtggaaagat aagggggcag cgaggatagg ctgggccagg ccgtttggaa atggccatag 240
 attggggata ggtagaaagc ttggtgcaaa cgctatcgga caattggcag agtggtcagc 300
 cctaaatggg tggtgcccaa ccgatagctt ttaagtgggtg tgggtgtttgc cgtgcctaata 360
 acattataac cactaccacg tataggatgg caaagggttat taagagtagg ctaacgatag 420
 ccaatgggtg gacttgggtg gcttacggca agcccgatag gccagagcta cagggttac 478

<210> 5490
 <211> 497
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072f02a1

<400> 5490

gcacaaagcg gggtactgtc tgttcaagct accatctctc tctctctttc ttagtgccctc 60
 cttgccagaa gttaaaatgg cccaagaaac ttctctattc acatctgaat cagtgaacga 120
 ggggcaccct gacaagctct gtgaccagat ctccgatgct gcgctcgatg catgcttgga 180
 gcaggaccct gacagcaagg ttgcctgtga aacctgcacc aagaccaaca tgggtgatggg 240
 tttcggagag atcacaacca aggccaacgt ggactatgag aagattgtgc gtgacacatg 300
 caggaacatt ggttttgtct ctgatgatgc tgggtcttgat gctgacaact gcaaggctcct 360
 cgtcaacatt gagcaacaga gtctgatgat tgctcaaggt gtgcacggcc acctcacaaa 420
 gaggcctgat gagattgggtg ctggtgacca aggtcatatg ttcggctatg cactgacga 480
 gactccccgag ctcatgc 497

<210> 5491
 <211> 632
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220072f02d1

<400> 5491

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gggggggggg ggcccacgca actagactgg tgtaggaca gctaaatggt agataggtgg 120
 aaggcaggca cggagttcac aaaggcgacc aatagcgaca acagtttagcg cacattatag 180
 gtggaccaac gccgccgcaa tgagcgctgc ggaaattggt tggttaagata ggacccgtgc 240
 tttggcaccg tgtaaccccg tgaagggttg ggactaggct aataatagtt ggtaggcggc 300
 cttgtgtagt actgggaggc tggatataga caaagcatat gctgacacgg gcgactaggg 360
 tagctagccg ccagtagctt tgtttgtaga ctgggcgcgt aacaagcgta caaccgtgt 420
 tgggctgaca taacgccggt tgaatttatg caattaacgc gctatttttg ccgacacggc 480
 ccgtgaagcc cgcttggttg cgcacaattt gtacgacaat tagcttaaaa tgcgatatag 540
 tatgtggggg acggagacct gctacgcagc tagctgtanc acttagcgag ttagagcaat 600
 tactaccgac gcgtgggcaa gcctggccag ta 632

<210> 5492
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072f03a1
 <400> 5492

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 ggcggaagat gacggagggtg gcgagatcag tgggtgcacga cgttttgggg caaagggtgg 120
 tcgacgtgga ccagccaatc gtcgattaca tcgtaaacgt ccttgccgac gatgacttcg 180
 atttcggtct cgacggccaa ggcgccttcg aagccctcgg cgagcttctc gtcgctcgtc 240
 gttgcgtcga cgatttcttc cactgtcgtc tcgtgtgcag cacgctgtgc gacaagttcg 300
 ggaagcacgg tttggtgatg gagaagcccc ctgttcgtag ccttgcggtg ccgtttcgaa 360
 ttgaacgagg ggatggacga cgtgcatgct cccaagaaga atcccgagcc cgtcgacggt 420
 cctattc 427

<210> 5493
 <211> 538
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072f04a1

<400> 5493

tctatgcttt caagtagtac cattagggcac tttgttttgt gtcttcaatt tttttttcct 60
ttcaacctta tcaaattaac cccctacaca tttatttagc tagctagcca atttattaat 120
taggcacata atgggaagcc cagaatccaa tttgccaccc gggttttaggt tccaccaaac 180
cgatgaggag ctcatcttct actaccttag taaaaaggta gcatccatac ccttgaccgt 240
ttccattatt gctgaggttg atatctacaa gttagatcca tgggacttac cagctaaggc 300
cacctttggg gagaaagaat ggtatttctt cagtcctaga gaccgaaagt acccaaattg 360
tgcaaggcca aacagggcag ctgcttcagg gtattggaag gccactggca ctgataagac 420
catagtgaca tcattgcaag gaggagcaca agagagcgct ggtgtgaaga aggcttttgg 480
gttttacaaa ggatgacccc ctagggtgtc aagaccaatt ggatcatgca tgaatatc 538

<210> 5494

<211> 581

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072f04d1

<400> 5494

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ggggggggga acggttaagat tggagtata aacgagagga gaaaatgaat tgttaagtaa 120
attttaataa tagcggtaaa ggaatagggg gcgatataaa ggcggtgaa gggcgtagac 180
aaatggccag aggggcgggg aatacgggtg gcagttggca agccgccaag tgggtgggca 240
ggtttgatta aagacggttg ctggttaact gaataggtga ggtggtaggg gtaagtataa 300
aggaaggaaa cacaagaaa aaaacaaaat atgagaaggc tgagcgatga aattttgact 360
gatgaggttg gagtgaagca gtaaaggccg ccgaggtggg ccgcgctgta ctggtgcaag 420
aggggatggg aaggggttga gggtagggaa gtggggcaga gggcgccagg agttggcaaa 480
ggcaacagca gcattaacta ggaattctgc aggtagtaaa catgctggta gcaccgacgg 540
ttaggcgccc ggtgtcgagg ccggctgcag cggacgaccc a 581

<210> 5495

<211> 491

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072f05a1

<400> 5495

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gactccttcc gttacactga aattgagaat ggaacgctgt gggaagttga ggggaagtgg 120
atagttcagg gagcacttga tgtcgacatt ggcgcaaacc cttatgctga tgggtggagaa 180
gatgagggag tcgatgacgc agctgccaaag gttgctgaca ttgcagatac aatcagactt 240
gacgagcaac ctgcttttga taagaaacag catgttacct tcatgaagag gcctatcaag 300
aacttgactc ccaagctcga tgcagagaat ctagagttgc ataagaagct cattgagggg 360
tcaaccataa acctgctatc taagactaat gatttcacgc tactogttgg ggagagcatg 420
aatgatgatg cttgctaggt ccttgcatac tacaagatg gtgctgctga tccaaatact 480
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<210> 5496

<211> 581

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072f05d1

<400> 5496

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ggggaaattt taaaaagaaa ggctgtagag gttcggagtg acctaaacct aatagcagta 120
taccgaagcc gagaaattaa ttgctaagag gcggattagc aatgacgtac cagtaagtgg 180
tacaagacgt tgagagacgg gaaaatattg ctagataggc ttccgggacc cggaaggagg 240
ttagatgtag aatactcgat aggcacgtta gtgattactc gagggcacag gacaatattg 300
gccataacac cctacaccaa ttgacaaaag gtttttagttg ctggttagtg gtggacctgc 360
tggtcatagt ggctagcggg cttgcccata acacccgaca ccagtttaca aaaggtttta 420
gtttctgggt agtagtcac ctgacgggtca tagtgccatg cgtagatggt cgagatgtgg 480
tgcaaagagt tttcaatcag cccagttaag gcgggggtgtt aagtagctgt gtgagtaagg 540
tacaagaagc aagggtggga gaggtagtga agctaagtgt c 581

<210> 5497
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220072f06a1

<400> 5497

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 ggaggaagaa gctgaaaacc ctaatctgca gagatgagat gagatgaaaa tgaaaaggcg 120
 tggaatcagc gcggcaagga acatcgtaga tgcttgctt gggagtgtgg gatctcaaatt 180
 ggctcctcca attcgtattc tccgcgttcg tcttggcgat tggactgcac gcgctgctca 240
 agaacaccgc ctccaagtac ttcgagattg aagccacttt ccacgctatg cctggccctc 300
 tcaccgacca ttctctctgc gccgtttgtc gcaaccccg ccaacaagaaa tgttcgcat 360
 gcatatccgt tcgatactgt tcacaagcat gtcagcaggc gcaactggaaa tccgagcata 420
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 taactaatcg tgttttcaaa gcttctgctg ctgtgaatac aa 522

<210> 5498
 <211> 590
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072f06d1

<400> 5498

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 tattaggggg aaacgcgaaa tgaggtagtt gaagttaagg acaggcactg aattagattt 180
 gttgtgcagc agcaggtggt ccaccttata cgactaagag taacggtaat acagggtggc 240
 ggaataaacg gataagcggg gtgcagggtg ttgggcgggt tacgcactat attaagcgga 300
 tttagtggaa gtaggcaact tgtaaaccta gtaacaaca taggggccgt atgctgcaat 360
 tgaggcataa gcccaagccg agtcctattc ccgcgtcaca atactgtggc agtatgtgca 420
 actaactttg gtggcattgc aacaggccac aacgacattt gcgtaagggg agtaccacgc 480

ataccgtaa aaggtataac cggcggcccg ttattaggtc cctagagggc ctctaaggcg 540
gctaacgaac ggcgcgtaac acggccagta gcgggcttgc gcttatgcaa 590

<210> 5499
<211> 503
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072f07a1

<400> 5499

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caccgccact gtagcacaat gtcattccaac attgccgaac ttagcttcca acaacgatgc 180
tcatgaacca gccaagcga accctgccgt aagggatgct gcgaattgta tgaggatgca 240
ggaggggttac attgattacg gtcacaagtg tgggtgtaac tccaatgtct tccgcctcta 300
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acccggctct attattcgca ataacatcag gtacagcagc cacaggctcc acggttgtcc 420
atatcgtcct actgacattg tggcgccaga gccacgcctg attccagcat tgggccatgc 480
cccgtgggcg gataattagc aaa 503

<210> 5500
<211> 496
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072f07d1

<400> 5500

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gggggggggg gggggggggg ggtggggggg gggggggggg gggggggggt cggcaattta 120
accaaccgag aggggaaaag aataaaagcc tttagaatca ataggggggt tacgggtaaa 180
ggggctataa tgggcgggag gtatacgcat gcaatagctg ccggaatatt gaataaaacc 240
ggggggagca agttttatag gggtatcttg ggaaaaagga ggccagatta aggcggctac 300
aattttgggg gaaggggaaa gggaaaaccc aggcgctag taagggctga gctgcttcaa 360

gggaatcgga aaagcaatag ctagcgcccc aaaaacccag caaaccaatt tcttgaactt 420
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 ttgcccaagc ccaaaa 496

<210> 5501
 <211> 571
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072f08a1

<400> 5501

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 ctctgtatta ctagccgcgc agtcgaggtg ggtagagcct aaccccaaac acaggaggca 180
 cggataaaac cctacactgt aaatgtgttc agtatacatt gcgcattctt atagagagcc 240
 ggcaacggca cagaggtgtg ttgaccaact gatacacact ttgaatgggt atgcagctac 300
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 caggctgctg ctaatggaga atatgtatag gcttatgatg acaaggacag gtaggtaggg 480
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<210> 5502
 <211> 447
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072f08d1

<400> 5502

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 ggggaaaaaa accccccccc tattgagtaa tttttggggg aggggagcaa tatggggcaa 180
 ctgggggttat ggaaacattg gttaggtccg gccattttga aggtatagaa gccgtaggtt 240

ttccgggggc ttaagtaaat aatggctttg aaaggggagg ccgaaaaccc aaaggggaag 300
gataaataat gcgtaaaca aaaaaaacgc cagccaggga aggtgaggac gcctaagcgc 360
acccggaaaa cggctcctaa tgagaatgcc gctttttgca aaggggcccg ctgaagggtt 420
gggataattt aggcacgggt ttgcgtt 447

<210> 5503
<211> 642
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072f10a1

<400> 5503

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ttagtggagt tttggaaca gccgttaaag ttattgaagt tgccattagt atttttggta 180
ttgcgcaact tattaaagcg tgcgcataat gatgatactg cgctgcagac gctgatggcg 240
gctgcgaggg gtcacgggcc aaagctggct gggcacgccc cggtgcgtt gtggcacccg 300
ctgattgctg cacagcatta tgatacggct gctttgaatc atgagtttag tgctaatatg 360
gagctgcaa tggcgtgtaa cactaacaat aatttaggtc cacgcaacct aggcacctcg 420
atgttcctga aattttaggc cattgggccc tcgaacaata accgtactac gctggaacta 480
cagaaaccaa agcgcaatcg ctaacaacca cttaagcagc aacgaaagca gacatcaaca 540
aggaaaatat tactgcagat aatggtttgg gattgggtata gaaaggggtg gcgcttaggg 600
gaggagcaga tacaggcaga tgaggtgcga gtaaaaggta cg 642

<210> 5504
<211> 561
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220072f12a1

<400> 5504

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ttccatggtg taaacagcaa gtcccaaac ggcagcaaca gccttccggt cgggacaatg 120
 ccccaaac ccgattagcac aacaaacaac aacctgcgtt ataacataat aattatacag 180
 cataaaacct ggtacactat ttgcaacaca agaccccgca agcttagttt cctgaggcac 240
 caccgtaaga gtgggaacca gcatcgacgg agttacgggt gaaagttaa acggtaacta 300
 gttaggctgc tgaagatggc cggcgctacg ccggtgttat aaataaaca cggctaacag 360
 agatgtttga ctaggagtta ttaaggacca ttacagaatg gacaaaattg caacaactga 420
 cttcactaag gttacaacta cctgttgcaa acacttcgtc cggtaattat actgtaacaa 480
 cacaagcagc agcatcagcg ttccagtggt cggttaactt accaggggca catactgctg 540
 gcacacatta actgctggtg g 561

<210> 5505
 <211> 563
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220072f12d1
 <400> 5505

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 agggcaatgc gggacacgag agcaccacac aattcaatat tgcaaagatg gggaaaaaaa 180
 accaaaagta acccaaaaaa aagaaaaata taccacagag agcctcagcc tatacgaata 240
 agaatatgga acaactactt ggccgtgttg tactactgcg tgtaaaagt gccttgccaa 300
 taactgttcc catagtcgta gtagtaggtg ttgtggcact gcgccggcaa ttcctcctgt 360
 tgggtaccact tgctggtgcc aaggctgtcc tgactggtgg taccggggtg aacggagtgc 420
 cgttgaaggc cgccagaagc tgaccacga gagtggctaa tgggtgggagg gcgccacaat 480
 tatgcataat ttaacgagga ctactaagcc agctggcaat gggcccaggg acaaatgcca 540
 gaatgatcgt agttggaaac aga 563

<210> 5506
 <211> 360
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072g01a1

<400> 5506

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taggttccaa gcgagactcc atctcctcct accaattgca ctgagactgc ttacagtttc 180
agaatttgtc agaaaaagct tgtcccgatt gcatttttgt tcctgtacgt actcttattg 240
atacggatgg cagcaccatt ggcatgtgtt gttgggagtg gtttatccat acagagtaat 300
aaaattggca aggacgtcaa tggaagatat ctcttctcat atcataggct atcagtactg 360

<210> 5507

<211> 484

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220072g02a1

<400> 5507

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caagcgagac tccagctcca cctttgaagt acagagaaga agaattgaag aatgtacgag 180
gggatggaac tggagagcgc atggaatggg ataggatcta tgattatgat gcctacaatg 240
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taccttacct ttgcagagga agaaccggta gaagaaaaac tagaaaagat cccaaccgtg 360
agaaaccgag cgattttgtt tacctctcaa gagatgaaac atttggtcac ttgaagtcac 420
caaactttct cgcttatgga atcatatcgg tatcccaaga tgtcttgccc tgcttgactg 480
atgc 484

<210> 5508

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220072g02d1

<400> 5508

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 tgaaatagga tagggtatta cggataagca gataagcccc gaagagtagg atgaggtatg 180
 aacccgatta ggagccatga aggcccaaaa aatggatagg ggttcggctt aatataacaa 240
 aaaacaaaga aacaactaac tgaccagtgg cctaggatga aaaggccact taccgccaga 300
 ggataaagag ggtataaggg tacaaaaggt acgaacccca aactgatatg ataggctacc 360
 cctagagacc taaggtaaact actaatgccg caccacggc aaccacccat ttcaggggta 420
 ctaccaaggg taataaatgt ccatacaaaa ctgtccaagg tagtggtaca taggcctgta 480
 cgtgttaaga caatgggttat aagtggccta agtctt 516

<210> 5509
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220072g03a1
 <400> 5509

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 atatcaacaa actctgagga ccttgacaaa tcagacatgc gtaatcatgc gctgctatct 180
 accaggcttc acatgctgca acagtaccaa aggtggctgg attgaattaa tccatgggaa 240
 gcctcagcct gtacatatgc ggccaatgca gccttggttg ctgccctata tagtgattat 300
 ccggacgctg gtgatacacc cgtatgggat cgtggaccgt aactcttttc aaccgacatg 360
 ctgcgctgct ttgccatggc ccagatggag tacataactg gaaataaccc aaggacaatg 420
 agctatgtcc tacgttttgg catcattacc cagatcacg 459

<210> 5510
 <211> 654
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220072g03d1
 <400> 5510

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 agaataaacc tgcgaaaata gttagaacct taaaatgact aaagtaacgt agctatttgg 360
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 caagccacag ttccacaact cacgtgttgg ttacaagggtg ccgcgtacca agttagaccc 480
 gggtagtaac tacctaaaac gacttggat caacggctta acccgtgacc accatttttg 540
 ccaccaaccc aaaatagtag taagattact aaatcctact attggtggcc caatctgact 600
 tcgtataagt atccaatttt gacctctccc aattagctga atccgaatcc attt 654

<210> 5511
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072g04a1
 <400> 5511

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 ggctactgat gcccgtagct cgcgtcgcaa gtatggacga tcattctctc cggaggacgt 180
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 aactgacgac gggcatacac ctgactacga tgatgtgcag gagggagaga tcctcgaaga 360
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 aatctaggtg acgggagatc gagatgttcg atctga 456

<210> 5512
 <211> 620
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072g04d1

<400> 5512

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ggtgagattg tgtatcctgt tgggtatcgg ttgggttttg gggcgcggtt tatgtaagtg 180
tgggattttg ctgacgggtt gtggcgggtg ggggtgtgcgc taacgtgtga gttatagtgt 240
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cacactcaca ttgcgtgtga cgagcattaa ggcagtggca gtcattgtga gagtgattag 480
cacaaccaca atggctgcat aggtgagagg ggtttttggt atgggtacac cagcaagggt 540
gaggcgaagc gctgggttgt ataggacttg ttacgcgggt agtagtaaag gtgttgaga 600
ccggtgtaag atgggaaaag 620

<210> 5513

<211> 527

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072g05a1

<400> 5513

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tggaatcagc ggggcaagga acatcgtaga tgcttgtctt gggagtgtgg gatctcaaat 180
ggctcctcca attcgtattc tccggttcg tcttggcgat tggactgcac tcgctgtca 240
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tcaccgacca ttctctctgc accatttctc gcaaccgccc caacaagaaa tggtcgcgat 360
gcatattcgt tcgatactgt tcacaagcat gtaacaagc gcaactggaaa tccgagcata 420
agatgagatg caaggagttt cagggcagcg ccagtgtgat gaactttgat caaactgaag 480
taactaatcg tgttttcaaa gcttctgctg ctgtgaatac aagttca 527

<210> 5514
<211> 556
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220072g06a1

<400> 5514

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cctggggctt acccaccacc acctggggca taccctccac aacaaggata tcctccagct 240
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gctcaccatg tctctcatgg ctcccatggc tcctatggcc aatatgcaca tgggtgctcac 480
atgccacatg gaaaattcaa gcagcacggg cagggttaagt tcatgcatgg atagcatggc 540
aagttcgga agcatg 556

<210> 5515
<211> 572
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220072g06d1

<400> 5515

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gattacggtt tgtatgggtc tagttatgat agttctacgg cttagccacg aagttggggc 420

tcagcatagt gcggcattta acaagccagg gttattagcg ttattaagcc taatggcggt 480
aagggggggc tgcaagttaa agtgtgtaat tagcgcttgg cttatgtcgc aaatggctag 540
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<210> 5516
<211> 588
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072g07a1

<400> 5516

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gccggcctat taaaaacagg taataccaat ggctaaactt gccgcggtgg cacaccgggc 180
gacaaaatag acattatagg cttaaaggct cgctagctgg gctaccaggc gccacggggc 240
aacatgtcca gaggtgaaa aaactaaggc aaaagttaca cggagggcgc agcaacttgt 300
aaacacaacc accaccaa atagagggagc cgcagcacgg cacccaaatt tgttggaag 360
gataccaact accggtgcaa caacagctac tagatagttg gagctacacc agaggggttac 420
ttatgggtgtt actaaggggc cgctcgcagc cgaaggccca gaaccgtag cgtagggtag 480
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<210> 5517
<211> 611
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072g07d1

<400> 5517

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gggggggggg tttttcccca accctggcgg ccggggcccc cccctttccc cccctttggc 180
aaaaattccc cctggggggg gccttggggg ccgggttttt ctttggccaa aaaagggacc 240

cctttttttt aaaaaaatcc cggaagaggc ccctttgcct ttttcccaa gtttccggt 300
 accccccccc gggaaaaaat tttccccca accccaaggg gcttttaaag gaattttaat 360
 tttgggggtt ttaaaccctt ttttaaggccc gggggaaaat aaaaggggtg gggattgggt 420
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 tggggggggg g 611

<210> 5518
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072g08a1
 <400> 5518

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 agatggcat ggcgcattga tatcacatta ctacgagcta cataggcatg ctaagactag 180
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 gcttgctgat aaacaacagg cacacctaaa tgacgcactt aattagcagc aacaacattc 300
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<210> 5519
 <211> 552
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072g08d1
 <400> 5519

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<210> 5520
<211> 332
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072g09a1

<400> 5520

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ctgatacaaa cgtagataac aatttctaga cattcgatca gaaccaatca ggtgataagc 180
acggcaactg cgaagccaca cgaatgggtg ttcgctatca caaattgcgc cgcccgtag 240
gatctctgca attcgcggtc tagtaatcac tgctattgat agatttgtaa tagcaacgaa 300
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<210> 5521
<211> 305
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072g09d1

<400> 5521

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gcttgaagct tccgtaagaa gactgtaaat atccaatccg accagcaaata gctagaataa 180
gatgtaagtg agcgatgagc gcttttagccg taaaccgcct agaaccgtgt aagcgattgc 240

ataagcatag caccaaaacg gtaagtcgtc atgcttgtag aggtggtggtt attgctccat 300
ggtgg 305

<210> 5522
<211> 655
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072g10a1

<400> 5522

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cttcttccct gcggatccgg ctagtgattc cacatccata tcccgcagcc ttccaaccgc 180
ggccaataga actagccaag gccgtattta ccctgttacg ggtggccgta gttgaagcct 240
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ataaccaagc catatggtgc gcacttgcaa acggggttact ggtttaataa gcaaagccac 360
ccgctaataa aagcccagtt gggagcggta aaaatagtag acccactcta ctagagtgat 420
acttatagca aatagtggca ttaaaaccta acgctgcgag tgcggcgagt gctgtgaaca 480
ctgcaatgac actacctatc aatatcaagg taccaatggc acatgcaata ttatgttgtc 540
taaaacaact ggcactaggg gtggtacaac gtacgcacca aaccctttaa gccacaacta 600
acatagcaca aaattctctg gtagccagca taggaactac aggcaagtca caaac 655

<210> 5523
<211> 606
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072g10d1

<400> 5523

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gggggggggg gcaaacacca aatccgttta gaagaacgag gaacggagag ggggggcgtt 120
tccaattata aagtagttgg cttattgttg aaaagataag tgataataaa gttgaactca 180
tagatataag cagacaaaag taaaagtgcc acgacagaag ctgagttagt agaggagcgc 240

atcagtgggg ggtagtata gggcggtgtg caagacaagg cagataacga taatagagct 300
gatagctggt gtagaagggg tgtaacattg gatttacgca acgacccttg cgaagtatac 360
agcataaact cactaagggg ttaacagagt ttaccggggc accgagggac tataacacaa 420
gcacaacagg agtgctgggg aaactggaag agcaagcaga agcaacaatg caaagaaaaa 480
tgacaagcac ctacaaaagc gctagtgagg tagcattttg tagtatgtga actacagggg 540
gtagaaaact actagagggc gatttgtata agtgaaaagc aatgctgggg tagtaagtag 600
ggagta 606

<210> 5524
<211> 548
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072g11a1

<400> 5524

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ggcagaggca gtgctgcaca ggccaaacaa gaactacctc tagcgcgtcc gggctctcca 120
gggcaactgc cttggctacc ccaggaagag cagggggccac aaaaaaacac gcccccgcc 180
gaactggcag tggccacctg ccacccaaca caggaagcgc tacaaatata acgggttagg 240
cccgataaa ataggttacc atcttagggg tttctactag ctgaggcacc ggtggcagca 300
cggcataaag cccagctga ggcggacgat gccccggccc tactagtaaa gcgccctgct 360
atacggggat aacgataaca cattcaacta cgccggcatt gtccccccgt ggccacttag 420
cccggggcca ggcttgctcc tgaggcctct gctgcagctg aattttcttc tggcgcgcca 480
gcataggcag ccacagccga cgggtagtag caagcggtaa caaggcctaa tgagaacacg 540
ccacaagt 548

<210> 5525
<211> 531
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072g11d1

<400> 5525

actcacatga cttgaccagc agatttacc tactagcatg tgtgcacgtc ctccttcttg 60
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 120
 gggggggggg gggggggggg ggggggggga cccaaaaaac ccagttttta ttttagggga 180
 aaacccttta aggccctggc cagggtttta ataaaagtcc ccccgaaagg gttaatttta 240
 agaaggggtt tccttttagcg gggcaaaatt tttttttaa aaaaattttc ccccttaaga 300
 taaattttcc cccaccccg gaaaaatttt caaaaacccc ctttcccaa gacccctta 360
 aaaaaacccc aaaatttaac cccccggtt aaaaagtcc caaattggcc ccttttttat 420
 cccctaaagt tccaattgg caaacttggg tttgagagag agagccctta aattaactgg 480
 gtcccatag ggccgttccc caaaaacctt ttccggggat tcccgttttt t 531

<210> 5526
 <211> 559
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072g12a1
 <400> 5526

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 tgattttttt gtgtggggg ctcggtaggt gcgggggtgc ggcaacgtgg gtttgactta 120
 agccttattc agtcgggcat ttcccggat acgtgttcgc acacctggca gcaaatttgt 180
 atgcataata gcaaagcaaa ggggcctttg gtgcgtaacc agtcaactta accctaaccc 240
 tagttgctaa tattattacc gtaggctgca cgggcaccaa agtttgcacc acaatacata 300
 caactgtatg cagccgcttg ggccacaacg tggcacagt atataacaac ttagacgggg 360
 cttattagcc cggctgtgcc tgcggtcggt accattgccg cgcgccacg attgcaaacg 420
 caagcgctat ctgtggcagc agcaacacgg ctaattgctg cacgattgct agggaaccaa 480
 caatggcggc atgcaacggt gaaaccta atggcgctggc acggccatgg ggaattaggt 540
 aagctacgtg gtttttctt 559

<210> 5527
 <211> 721
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220072g12d1

<400> 5527

cctactatat tctctgtagt ctaggggtcc agtccatgga gtcagcgggt cctcataagg 60
agcagctagt gtagctgtct gacaaagtga tatctccatc tcgttagcat tgctccccgt 120
ttcaacaacn caaaccccc accccaacca caccaaaaca acacacacac aatcacacac 180
accacacccc caccattacc caatacacac caccacacc acccggaac aagccccaac 240
aaacccaaac tccccacat gcctcaacaa aaaaaaagc aacttttttt ttccttctct 300
ttctctctc ttatcgaaag cttaatcaca aaactaaaat cacggacatt atttataaaa 360
ctcaagtgcg acaaactcca aatgagaaag aaaaagccgg ttcctccatt tctttatcca 420
actctttatc ctcaagttac tcagcagcaa ggggcacaga ctcaagcaat ttgcggtact 480
tgagagcata gaacatctcg agatagcggc ggctctcacg gcggtcaagg ttagacacat 540
gcttcagaa gccatagaca cgggtgagag tgagaagcct ctgagagtaa atttgccatg 600
tgtacttctc ttcaatacgc tggagaccag ctttgagat cttgtcccag tgagttgggt 660
caagcttgca cttctcaaag aagtcaacaa ggagatcagc agcacggtca ccatggtaag 720
g 721

<210> 5528
<211> 509
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220072h01a1

<400> 5528

gttgggttct tcttgctttc aaccttaatt atcaatttta ttacttctt attcacgcta 60
tttattcttt gacaataatt tgattgctgg aattgtcaat ggtggaccct ttgagccaaa 120
gtgttcatat ttgaagctaa atctttccac caattggact gagactgctt acagtttcag 180
aatttgctag ataaagcttg tcccgattgc atttttgttc ctgtacgtac tcttattgat 240
acggatggca gcaccattgg catgtgttgc tgggagtggt ttatccatac agagtaataa 300
aattgtcaag gacttctatg gaagatatct cttctcatat cataggcttt cagcactgag 360

taaggagtca aagactatat gcataaaggc ttccttggat cataggacgc atgaaggcag 420
aagaggatct ctgaaatcgt tgaatgtagg agttggctta cctgtattat taggaggtgg 480
gacagcttat gctgatgaac taagacctt 509

<210> 5529
<211> 414
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072h01d1

<400> 5529

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gggggggggg gggggggggc ggggggaggg ggaggggggg gggggggggg ggggagacgt 120
aaaagaaaga agatagcgga ttaagggtaa gcagataagc acacaaaatt aggatggtgt 180
atggaccgga taaggagcgt tgaccgcaca aaaaatggct aggggttcga cataatatac 240
caaaaaacaa tgaacaact aactgacccg tggcgctggg tgaaaaggcc ccttaccocg 300
cggggcttaa ggggtctaa ggggaaaaaa ggtaccagt ccaaacgat ttgataggct 360
aagcctagag acctaaggta aataccaaag ccgcaccac ggcaaacc catt 414

<210> 5530
<211> 510
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072h02a1

<400> 5530

acaaaacgca caaaggatta ttatagcaat ggcagaacaa aaccaaacc agacaactga 60
agctggaagg caccaagagg ttggccacaa gagccttctc cagagtgatg ctctttacca 120
gtatattctg gagaccagt tctacccaag agaacctgaa tccatgaaag aactgagaga 180
gttgacagca aaacacccat ggaacatcat gacaacctct gcagacgaag ggcaattctt 240
gaacatgctc cttaagctca tcaatgcaa gaacaccatg gaaattggtg tctacactgg 300
atattcactt cttgccaccg ctctcgctct tctgaagat ggaaagatct tggccatgga 360
tattaacagg gagaattatg aattgggttt gccagtaatt aagacagctg gtgttgacca 420

caaaattgaa ttacagagaag gtcctgctct tccagttctt gatgaaatgg ctaaagatga 480
 gatgaccatg ggagctatga cttcatcttt 510

<210> 5531
 <211> 524
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072h02d1

<400> 5531

accatcactc tacgagcact ttacctacta cacgtctgca cgtcctcctt cttggggggg 60
 gggggggggg gggggggggg gggggggggg gggggggggg gccccggccc ccggaggggc 120
 gcgagtaagc gtgtaagctg aggatggagg aaagagatag agtaacgata ggaataaaaa 180
 acctcgaaat cccttaaaaa aaaaaaaaaa aacccccccc aaaaaaaca accccttccc 240
 ccacctcaac caaaaaccac caaaaacaaa ctctatttaa aaccaccccc ccaaaaaaaaa 300
 aacaaccccc caaaaatacc ccccccaaaa aaaccacccc cccccctttt acacccccct 360
 ataaaaaac cccccccaa aaaaaaacc ccccccccc ccttaatatc cccccaaaa 420
 taaaaaata acaattctca ctcttttccc ccaaagcccc cccttaattt ttaccccccc 480
 caccaaaaac cccaccccc ccccaaaaaa accccttttg cccc 524

<210> 5532
 <211> 481
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072h03a1

<400> 5532

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 gcgcggcaag gatcattgcg gtctacaact gtcgggttcaa cagctcgctt atcggccaag 120
 gattatgact ttagagacag cggcactaac catagatagc atatcttgac atattcttgt 180
 ttcaacagtc aatggtgtgt gccagctcta ttgtgcctat agtcatggaa tcgcttactg 240
 gtcctctca accagaaata tgatgttgct tacatgcact tacatggtaa tggcatggcg 300
 cacacaacca aaccatcatt tggcagtga gctggacagt cgaatcaaaa tgcctaccta 360

tttttttggc tatttgaagc tgcatagcgt taacttatag gctgctttct gaatcataga 420
 ctgtagccgt tactgggtat agcttgaatt ctttgcagga ttatatagca tagcttcata 480
 t 481

<210> 5533
 <211> 444
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072h03d1

<400> 5533

gatcgacgta cgccgctact ctaccaatgt cacgtttag taccaccttc ttgggggggg 60
 gggggggggg gggggggggg gggggggggg ggggcaacca atgcaggggtg agaagagcaa 120
 ctgaactgag agaacttgat aaacaaggaa actgagatct acgaatcctg atgagtgagc 180
 atataaaaac ctacatgaga aaggaatctg agatacttgt aaagacttta aaaaaagacc 240
 gagataggca gaggtcatgc gttaatggca tgcttaaagc aaccggggcca gctcgctatt 300
 agcttaggat tagcgaacgc cagcgaacta atagtagagg gtgccagcat accacttacg 360
 agctaagggtt agaatgagac ctataagaaa ctgccaatat attaggcatg cgtcaaataa 420
 caacagcgta tcagagatga gtga 444

<210> 5534
 <211> 571
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220072h04a1

<400> 5534

tccaaatcaa ccttaatttc tccctttaac ccatacaata caaaataccc gaaagccaaa 60
 ccatgtctaa tgtatcatca tcatcacttc cggttttcgc cctggatgcc aaacccaact 120
 cgaacatcac tcgacacact gcaacttttc atcctaccat atgggggggat tatttccttt 180
 cctatgatcc tagttctgcg gtgtatTTTT caaattcaag gaccaaactg gaaagttcaa 240
 tgaaaggcta gcaaataata tacaaggaac gttgagcttg tatgaagcag cccaactaag 300
 atttcatgga gaagagatac ttgaagaagc acatgatctc actctcacc aggtaactaa 360

gtcaccaacc acccaattaa gccatttcct tgctgcacaa gtgaaacata gcttatggca 420
 atcacttcgc aaggggaatgc ctagattgga gacaagatat gatatgtctt tctaccaaga 480
 tgatccctca cataatgaaa gctcgttaac ccttgcaaaa ctagattnta atatgttgca 540
 aaagctacat caaatagaag tcagtagtat g 571

<210> 5535
 <211> 590
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072h04d1

<400> 5535

ctgtcagggg tttgccgctc tacatcggtg gagtgccgcc tgcttggggg gggggggggg 60
 ggggggggga atgaaacaca aaggagtaga gaagagtata gaaaggtaac aaagacagta 120
 ataagagaag aaagaaaaga aatggtgaat ggcgagaagg aagtaaagag tggaggaatg 180
 accaaaaggg gcagcgaagt gggtaggagg tttttgctag ggcgagaatg agtggttagtg 240
 ggcgaaacta tagtttagtag ctctctaacc ggcataatat ctagaacaaa gggtaggccg 300
 atggcacgac caggaacata actgctagga agcgttggtt aactatgtgt aattaatggg 360
 acgacggtgg taagccgagt ggcttggcac cgaggagcgg ctggtagaga ctaagtaacc 420
 tggcaaatta tagcgttggtg ggtggccgta gatgtatggg taataagcgt agttagcact 480
 tgacaaagaa ggcaacttct gctaataagg gggcccgtat ggcgtcttta gagcacaatt 540
 gttgcgcggc gcgtgggttag gttaaccaa cagataaggc gtactagact 590

<210> 5536
 <211> 497
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072h05a1

<400> 5536

gttgagatgg aggatataat cgttgaagag actgttttgg acattgatac ctgtgatgca 60
 aacaaccctc ttgcagtcgt agactatatt gaagatcttt atgccacta cagaaaattg 120
 gagggtagta gctgtgtctc gtcggattat atggcacaac aatctgacat taatgaaagg 180

atgagggcta tactgattga ctggcttatt gaggtgcacg acaaatttga cctcttgac 240
gagacattgt ttctcacagt caatcttata gatcgatttt tggcaaagca gacagtggca 300
agaaagaagc ttcagttggt tggcttagtt gccatgcctt tggcatgcaa gtatgaagaa 360
gtttctgtac ctgtggtggg ggatctaatt ctcatatcag acaaagcata cacaaggaag 420
gaagttctgg aaatggagaa gttgatggtg aacacattgc agttcaacat gtctgtgcca 480
tcagcatacg tttttat 497

<210> 5537
<211> 552
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072h05d1

<400> 5537

ctgtcgggga tttgccgctc tacatcgttg gagtgccgcc tgcttggggg gggggggggg 60
ggtatagagc gaaaaggcga ggatgtgtga gaagggcaca ggaggataga ggggtgactag 120
aaagtggcac acaatagggg gggggcgggg agtagagaaa agagagagcg gtgcaaacia 180
tatagataac gatataaaaa aaacccccaa aggtagaaaa aaagatacaa aaaaaaaaaat 240
acaaggcacg aacaccaac caaatagaca caaaagggga ctaagtacag aagaacaact 300
tacgacgacg ctaaaacgtt tggcttaaca cgcggccaat tttggggacg gaactaccga 360
ttggtgtttt tggcacgcct ggtattatgg tttagcgcaa cgtaccgta gtgtgcttaa 420
acgcgttaga gctactacgt ggtaacaatt gcttaggggt attttgtggc acagtaaccg 480
gcagccacag tagcttagct tgcaacgtaa aatgtgttgg tataagctgc accaggggtg 540
gcgtaccag tg 552

<210> 5538
<211> 497
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220072h06a1

<400> 5538

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tgccatctta tggtagaggg agggacacac aaggtggaag gtttagcagc ctaatttttg 120
 gaaccaacct cactgatgta atcataactg gggacaatgg cacaatagat ggacaaggtg 180
 atctgtggtg gcaaaaattc cgcaaggggg agctcaagta taccggcct tacctgatgg 240
 aaatcatgta ctgagataat gttcaaataat ccaatctcac tttgggtaat tctccatcgt 300
 ggaatgtaca tcctatatac agcagcaacc ttgttgctca aggaatcaca attcttgctc 360
 ctgtgacatc cccaaatata gatggaatca accctgactc ttgcacaaac acgcgaattg 420
 aggactgtta cattgtctct ggtgatgact gtgtggctgt gatgagcggg tgggatgagt 480
 atggcatagc ttatgga 497

<210> 5539
 <211> 541
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072h06d1
 <400> 5539

ctatcagcga tttgccgttt acatgtgtgg agtgccgcct gcttgggggg gggggggggg 60
 ctagcatagc atgaacggga gtgactaacg attaaattag atactaggag gagtacggaa 120
 ggaaggtaaa taactagacc aaccggcagc cgagccaccg gggtgctact gcagcaagtt 180
 gctttagaaa taacagtgtc agattggaaa gagtaaaata aaactctaag gagaatattt 240
 gggatatgga ctgctcatgg gagagtgccg gcaaggctcg gggccataac agtacaatgg 300
 cggcagaaaa gtcgagagcg aagtagtcag gggtgagctg ctggtggcag gaggcaacgc 360
 acttatgttg ggtgctataa gtatggcggg gaaagggcct atagtggctg gcaatttgct 420
 cgtcgccaga gatgttgga acggtactca cggcgagatt agcgtaaatg tattgcggag 480
 cgaggagatc cctattggca gggctttgtt gcgttagccg cttcgtaatg attaagggaa 540
 c 541

<210> 5540
 <211> 118
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220072h07d1

<400> 5540

tgtgacgagt gacgcgggta gccgtgctac atgtttggac gtccaccttc gttggggggg 60
ggggggggggg tacatcgagg tatcgggtcg taatggtatg cgaagaaaag agccgaga 118

<210> 5541

<211> 564

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220072h08a1

<400> 5541

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gataacgagc gggtcactg agcctctaac aactacgtgc agcggagcac aggtggctac 120
tcccgacccg ctgccacga ttcttactaa ttggtgaggc gttcgggcat aaacgtgatg 180
tctttacata acctgtcttc tggccccgggt aacctgaact acccgagcg cagggattcg 240
cggtcgcgat caaccccgcc ttccaacaca ttacgggtaa aaccgaggcg ggagccgaac 300
tttattaatt aaccgcgat gtaatgcaa gggactcta ctaacaccgt gcggcttcac 360
cactcactgc caaccaacgg cccgccttgt acccggtgta aggtagatgc ccgcaagcac 420
catgtcatgg ataaagagg gcaccgtagg tgccgccagc ggctttatac tctgcggaca 480
aagcagttaa caagtaatgc ctgtgctaatt tacggttaga aatataccca atgctcgct 540
tgtatggtgc tgcccaaac gaat 564

<210> 5542

<211> 482

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220072h08d1

<400> 5542

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gggggggggg gggggggggg gggggggggg gggggggggg ggggggggacg aaaaaaatgt 120
ataggaggaa gtgtactgcg gtggacgatg aacataacag ggccccccaa aaacttgacg 180

gtacctcggg aaaatgcac aggggttgaa acgtgatagg gaagctttgt taaagatggc 240
 caaaagcaac taattgatta gaatgctaataaaaagtaataccgcttatta acccaaaaac 300
 ccggccgggtg gggttatcgg ctttgcctccc agccattagg gggcccccaa aaagcgttgg 360
 gcctttcggga attttgcgga tgggggtttac ttaaaccgcac cttatctacg gtttgcgcgg 420
 gagccattcc cggctaaaat ttcggcaggt ggccagtagg ggggaatactc tgccccctaa 480
 ta 482

<210> 5543
 <211> 595
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220072h09a1

<400> 5543

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 acagtaggta aagaagctaa gccgccctta ctgacgggtt ccgcgaaggc acctgctagg 120
 gcagctacca gagggctgga cgcgacacg gccgcaggtg aagatgatgg gcagccccctg 180
 aagtggtaac ttgccatcag atcgggttgag ggtattgcag aagcagcggc tgttcacgcg 240
 gttaagcagt taaacaaagc aacgggctgg ttttgaaca ctgctgtacc ggtaaagtgt 300
 gtgttttaaac caaaccaagc aatacttgcg caagcggtag acacggcaaa tgtgggctaag 360
 caagcctgta ttagtgcgat tgtaacgatt gccaccactg cgtacgggtga cgaatggacg 420
 gcttgtgatt acaaatactc gcttgggtgcg catcccttac attatgtagt aatgattgac 480
 accgaagcgc cgcttgccgt gcgtttaatt gaagaagggg ataaagccnc gcttacgggt 540
 gaagtaatta gtagtactta gcatttagcg ggtgtgagcc acgccacgcc ggctg 595

<210> 5544
 <211> 596
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072h09d1

<400> 5544

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 gggccataag aggtcaggct gaccaagcga aggaatagtt catggcaacc gagccgtgtg 180
 aagcgaaaaa taagaaagat aatgagaata actgattggg gtgttataac tggctaacgg 240
 gaaaaggagg gaacagttgg cacatgacaa tgaaaaatgt gaaagagggt attagcgtac 300
 agagggattg atgggagcat acagaaagtg ctacctataa gaaagactta taaagcagac 360
 aaagggagaa ggtaccgagg taagctgtac aaacctgggc tgcaggcaat acggttatta 420
 gtggtaacgt tacgggtgaa aggttggaga gtagttaatg gcgggttaca gttgactgta 480
 ctgctgagcc accagcttgc aggtgttcgg ggcgagctg ctaaaattgc taaaactgta 540
 ggtatgtgct tacgggtacg atacgtgcta ccggggccac tacatcgtca ctgggt 596

<210> 5545
 <211> 568
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220072h10a1

<400> 5545

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 tacggtgtac tatattatag tattgggcta ctacttgta gaagaggta aggtagtatt 180
 tgtggggtaa gaggtttgga ggagtctggg caggctcgga gggggggaag gtgggattgt 240
 aaggggaaga acaagtacgg gggcgacggg gcagggcggc gacgaacagg aaggaatgag 300
 gtacaggtaac ggaggcttac tgggcagggt gggggggggg gggaaggacc gggctaacga 360
 aaatttaaat ttaaattttg acattggccc aagacgggca cacggcgcg caaaaacaag 420
 tccagtggcg tgtcggggag ggtacagaac aaacgtggac aggtacaggt acggcggcat 480
 ctgggcaggt cgggggtgtg aaggacaggg ctacagagac cgcaactttg aacgtggagc 540
 cagaccgacg cactgggagg cggaaca 568

<210> 5546
 <211> 537
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220072h10d1

<400> 5546

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gggggggggg gataaaggat cttggtaaaa gaaggacaaa ggtaagaacg atattacctg 120
ttaaaagcag ggcccagcga ttagacaaaa gcataacatg aaaatgaaga tatgattaca 180
agaccagggg tgaggtatag aaaaacatga actgggcggc ggaccacggg gggggggaag 240
ggttgctaac gatgcgtaac caattaaatt gagcgatatg gtagctaaaa gagaaaatgc 300
agcagattaa atattacaag ctgagtaaaa tgtaagctta tgagggagtg caatccacaa 360
ccaaccctct ttaatccgcc acacaccaat agtaatgtgg acaatgacat ttcacggttt 420
tatagggtta gggtatgggc agtgggtaag acagatgcaa ctaaacctac aaccagagcg 480
tagcaaacta tagctataaa ggacaggaac ggggtgtggga atgcaagcaa gcacggt 537

<210> 5547

<211> 563

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220072h11a1

<400> 5547

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tgtgcgcgcg ggagaccct tagtaggcca tgggagcttt taagactgga gagtggccac 120
ccaagagggc acccgcataa ccaaccaggt aaactactgc tatttttagcg ggggtgtggc 180
gtgactttac gtggtagcca acccgccta ggtgtgcta gcggtgtaat gttaagcaca 240
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acgcacagta ataaccggaa gcaacactat acgccctgac agaccaccag tgggcggccc 360
acacgatggc tgcgactgaa tagccttggg gccgctggta agggcgggcc agggggcagc 420
ttgcgggagt ggttaaaacg ggggaacggc gaggatctgc cgtataaaca tgcagtaacc 480
ataaccacgt agcgacggg tggggcagcg agaaccgtgg caattagaag ggatgcggcc 540
ggacgcgagc agaggggtag acg 563

<210> 5548
<211> 602
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220072h11d1

<400> 5548

ggcttgagtt ggccaggagg ttgtccgtgc tacatgtgag cagtgccgcc ttcttggggg 60
gggggggggg atagggatga gcaaaagagt agatatgaat taatacgaaa ggagccggta 120
acattggaga tagtaaaaca aaatgatagc atgttggcgt tggcagtacg tgggcgcat 180
actcgaagat aattgaaaaa tggggccaac agaaatacct aataaaaagt taaataaagg 240
caactattac aaccttagcg gactgatact aacgatgtgt ttaataaaca gttgttgagt 300
acatttatgc gctgtggtag gaattggcgg cagtgtatgt tgaacttaag ttataagccg 360
caaaagttgt tggcacggcg aaaacatacc tataaaactg tgtaggccac ggcacaatag 420
cttacacaag cttattttgg ttagcaacat ggcctgacat aacacaaaaa tagccccgct 480
actgctgggc agtttggttg gcgtatttgt aaagaggttt gttaacagag aactgaggcc 540
cctagaaacg ttaagcagcc ttttgagaaa tatagacacc cttgtcactt caaggttcac 600
tg 602

<210> 5549
<211> 572
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220072h12a1

<400> 5549

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gtacaccttt gtgtgcgcgg gagaccctt agtaggcat gggagctttt aagactggag 120
agtggccacc caagagggca cccgcataac caaccagta aactactgct attttagcgg 180
gggtgtggcg tgacttaacg tggtagccaa cccgcctag gtgtgcctag cggtgtaatg 240
ttaagcacac tggggcgctt gcgtggggat aatgtaacca ccaggggtat taggcgccag 300
gcctggacca cgcacagtaa taaccggaag caacactata cgcctgtgca gaccaccagt 360

gggcagccca cacgatggct gcgactgaat agccttggtg ccgctggtaa gggcgggcca 420
 gggggcggct tgcgggagtg gttaaaacgg gggaccggcg aggatctgcc gtataaacat 480
 gcagtaacca taaccacgta gcgacggggt ggggcagcga gaaccgtggc aattagaagg 540
 gatgcggccg gacgcgagca gaggggtaga cg 572

<210> 5550
 <211> 589
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220072h12d1

<400> 5550

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 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt nnnnnnnnnn nnnnnnnnn 120
 nnttggtggn ggggacctta tanntnnnnn gaaaantana tgacttcttg tccttgatca 180
 gtctttgtga ccagcgtaat acaacctaaa aacttttgga agataaacag gcaacaaaaa 240
 tccaaacaaa ttgaagcacc agaaggccat gttagctaca gcaagtactc tcccaacaaa 300
 gatcctecta tcagaccac tgtgctcttc attaaccttg ttgatctcac tcctaagcca 360
 atccacaatg gtgaaaatcc tccttgagtt gtaaaagaca ggcacaaaag ctctcattgg 420
 agttgagaac atgccagaga atgccacccc ttccatgaag acttggttag acaagagaaa 480
 aacatggggt gcagctgctt tgatcccttc cttgtcacc tcaaattatc cctccaagat 540
 ataagctatt ggggcataaa gtccaatgat ggccoctata aacacatag 589

<210> 5551
 <211> 380
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073a01a1

<400> 5551

caaaatgcc accatgaatc catatagttt caaattcata gaagcettac taatattaat 60
 ggtgggtttg atgatgatga tgatgctgca cggtgtttgc gctgaagagg acatagtgcg 120

cattgcgagg gaaaggggaag cactccttca attcaaagct gcccttgtgg atgactatgg 180
catgctatca tctaggacca ctgctgattg ctgccacagg gaagggatgc tcttgaccaa 240
cctcaccgga catgtttetaa tgctcgacct tcacgggtcag ctcaattatt attcatatgg 300
aattgcctca cgacgttata ccagaggaga gatccacatg tcgatgatgg agttgcaaca 360
attaaacctt tttaaacctc 380

<210> 5552
<211> 513
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073a01d1

<400> 5552

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aaattatcaa aacatgggtat aagtatctca attgacagtg aaaaaatcta aagcaatcat 120
aacttccaac taattgcctt ttccaagcat taacaagctt agacattgga gttttccgat 180
ccaagagggc tagtgtcttc aaggtagtag ttaagcttca gccatgcacc tttgatattt 240
tattagcaaa tattgctacc ttgacataaa tattgtctga tagattgttc aagaacttga 300
aataggcatg tctccaagaa agcttgaata agattgagcc aaacaccacc caaaagctta 360
taacaaatcc aaatgccata ctcatgtaaa attcacgact gaaaagtga aattcgctct 420
cttgaacttc aacatttgggt ttttgtgtag gtctcccatc aatacaaaat ttctcaagtg 480
gctgtccaca aagatcaaga ttatcttcat aac 513

<210> 5553
<211> 317
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073a02a1

<400> 5553

ctctaggcaa accagtggcc cttacacatt ttgaagcgga taggggatac ccatgggcat 60
tgttgctacc atgaggatga cgaagaccca tggaggaagg gcctggatga ttatcgcacg 120
cgttgagact gccacggagt cactgccacc actgatgggt accataggcg atgcctctag 180

attacgagtg gtgacggcca ctgctgactg ctaactaaag gagaacgtga tcccggggccc 240
 ctagaccaga cctgtgacta tggatcgca tcaacgacag actactggga aggcaaaagt 300
 aacatgctac tgaaact 317

<210> 5554
 <211> 306
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220073a02d1

<400> 5554

acatgatact ttttttgtaa tttaaattgg acatccttcg gtaaacttga tttttcaaga 60
 attttctcaag ccggtacaag aacctcaaat ttcagtgtaa aactgttttg cctgcagctg 120
 atccatcttg aggatatttc caggcaccca ctagggtga cactggctta tacaggacat 180
 cgaaggctta ctgtccacat ggtcgagtaa aagttcatcc tttcaaatca gcttcttcta 240
 cttcgagttt cgtcacactg ggggtggcct tgggtaaaag ctttcttttt aactccctat 300
 gagccc 306

<210> 5555
 <211> 497
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220073a03a1

<400> 5555

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 gatcagaaga agagctgctt caagcagaaa gagtagcaag actgctaagg ctgcagcatc 120
 tgccaggggt gttgagaaag gtgcctcagc tgggtggtgaa gttgaatcag gaggtgaagc 180
 tgggtgggaaa ctagttcact ttgatggccc ttttgcgtct actgctgatg atcttttgtg 240
 tgcaactgcg gagataatgg gaaaaagcgc atttgggaca gcatacaaag caacactaga 300
 agatggtaac caagttgctg tgaagagggt gagggaaaag accactaaag ggcagaagga 360
 gtttgaaact gaagttgctg cacttggcaa aatcagacac ccaaattctt tggcacttag 420
 agcctactat ctaagaccaa aaggagagaa gccttttgtg tctgattaca tgaccaaaagg 480

aagcccagca tcattcc

497

<210> 5556
<211> 563
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073a03d1

<400> 5556

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aaacatacat tatttctcca agttaaaaag aatacatagt gtaaaacaaa atccttgctc 120
gtatatatac ataaactcaa tgaacaaata aataaagaat taaaacacat atcctttctc 180
tagtaattaa agtaaatgaa taaaaataat ctcttcctt aacacacaca cacacacact 240
cagaatcaat tctctttact cagtttcttg ggccttagct ccatcatcat cccctgaagc 300
taagtctggt ttaatctcct ccaattgctg tagaacttga tgaacttcag gcctagcagc 360
aggagaagga tccacacaat gcaatgctaa cttcaatgtg ttaagcaatt catctcctat 420
ggctggtgca tccctcatga gtcctcaaac aaacacttca ttagtccact ctctcttcac 480
tatggatgcc acccattgtg gcaagtccat gccattgggt ggctcccccg gcgggtttccc 540
agtcaggagc tccagcatga tga 563

<210> 5557
<211> 520
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073a04a1

<400> 5557

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tttgagatgt ggggagatgg attgcaaaca agatccttca ccttcattga tgagtgtgtt 120
gaaggtgtac tgagattgac taaatcagac ttccgggagc cgggtgaatat tggaagtgat 180
gaaatggtca gcatgaatga gatggctgag attgctctta gctttgagga taagaatata 240
ccaatatacc atattcctgg ccctgaaggt gttcgggggtc gtaattcaga caatacatta 300
atcaaagaga aacttggtg ggctccaact atgaagtga aggatgggct gagaattaca 360

tacttttggg tcaaagagca gcttgagaaa gagaaggcag aaggtgttga tttatcaggc 420
tatggatcat ccaaagtggg tcagactcaa gcccagttc aacttggttc ccttcgggct 480
gcagatggca aagaatgaag cctctagttc ggcagttgct 520

<210> 5558
<211> 533
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073a04d1

<400> 5558

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aactagttt tttcacatc agccttctga ccaagtgcct ttttactga ccgcctggta 180
ggtttggtt ctgaatcact agctgtcacc ttgaaacat cctctgcagt cccttctttt 240
acagggccat ctttcttttt tgttcgtcca agtttcttag aatgattttc atcacagagg 300
ctctcacttg gtggagaagc aacaacttcg gaatcatcat tgcattgcat tggcgacgaa 360
atcttagcat caatcccttt gtcattctct gaaggctctg cagcttcaac agaattggtcc 420
tcgggagggg aactgtgaac tatcttgctg ttgctttcac agtcgagcat tttctcagtt 480
tccttctcat tagcagcaac ttgacccttt ggagggtttg tcaatttaat tga 533

<210> 5559
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073a05a1

<400> 5559

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ctaaagtaaa ctgggtcaat tgggattctc atgaatgcct taaattatct ggaaattgac 120
agtatgacga ctcaaatcag aacctgaaga atatgatcag tacagtcatt ggtcagtatg 180
gactcttacc tgtttcagga gttatctcca agcttaagtc tgagggacat ggtcatgttt 240
ttacttctgt attctatgca caatctggca ttcaccccat gttgagtcca aaaccagtct 300

gccagaatga gaggcctccc tttcccacaa gtacctactc ccagtccaat cctgacagtc 360
 actgctcaga tcaacctcat gactgttcca atgatgctac ttgtcttgat caaaatgtaa 420
 aggataatac tgattcagat cacgcaaggc atgagtctgc tgctgctgat c 471

<210> 5560
 <211> 558
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220073a05d1
 <400> 5560

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 aggttgatct ctaatgacga caaacatgtc aacagcaacc ttaattgttg acacgtatat 120
 tttaacaactc aaagtagtgc caccatacat ttggcactt tagtccgcag gatgttgcaa 180
 tcgatagtag cttaaaatctt aaaataatat aatcacaata ttgggagaaa tatatatgaa 240
 caaaaagcca tgccaaaaag cttcacaagc ttggtaatgc cgacataaag aatgagtgaa 300
 aatgtgatgg gaagagtata aaatctgaga attttacttt tggaaccac caaattgata 360
 ttgttggttg ctaaggcttg agaaaaagtc gtctccagct gctggctgtg aaggagtgaa 420
 tccagaccta ccattccaa gaccagatcc tgaaccata gctctcccca tgtaaaatga 480
 aggtggaggg cttttctccc tttcatcgga tccatcactc aatccacca caatttcaac 540
 gtccgcaggg gatacttt 558

<210> 5561
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220073a06a1
 <400> 5561

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 tttataccct tctcgaatac aaactctctc tgtgaaaaag aacaaacccg atttggtttc 120
 tctggatgac ttctattgca accaactccc tctctctctt caccagcgaa accctaacct 180
 cttcatcacc actcccgagc tctccaccct catgcaatgg aagctcacgc ggggcaaatg 240

gaggccgcgt ctgttggatt tcgtgtcgtc cctagacgac gccgttgtga aatccgcttc 300
tcagaaggcg tttcagagcc ttcccgatgt atccaaagcc gtttccgagc tcaactgtgtc 360
gaaaggcggtt ggtcccgcca ccgcctctgc cgttttggct accttcgccc ctcaactaac 420
ccctttcatg tctgatgagg ctatggaggc agctcttggg gctcaaagat tattcactga 480
agcaatattt aaaattgtgg ataaagtgca aaggaagcgg aggaa 525

<210> 5562
<211> 302
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073a06d1

<400> 5562

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ttctcggggtt tttcttatat tgtttaacat aactatatta ttaaaaaaac aaaaaacaaa 120
gacaaaaaag aggccacgag aaccggcaca acagggaaca ccagaacgca caaacgacga 180
caggaagata aagaagacgc agaaaaaaaa aaaaaagaag agggaaacaa aaaaaaagc 240
caacaaaaaa agaaccggga cagacaaaaa cggacaggga aagagcccca gcggccggga 300
aa 302

<210> 5563
<211> 546
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073a07a1

<400> 5563

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atcacaaact ttgtggttgc agcctctgct ggtaacttca accaagactt tgagataaca 180
tggggtgatg gtcgtgccaa aatcctcaat agtggggaac ttctcacctt gtccctagac 240
aagacctctg gctctggatt tcgttctagg aatgagtact tgtttggaaa aattgacatg 300
caactaaaac tcgtgcctgg taactctgca ggcacagtca cagcttatta tctatcttct 360

cttggggata ctcatgatga aattgatttt gaatttctgg gtaacttgag tggatgcct 420
tatattcttc atacaaacgt attcacacaa gggaaaggta acaggaaca gcagttctat 480
ctgtggttcg accccaccca ggactttcac acatattcca ttctctggaa tctcagagc 540
atcata 546

<210> 5564
<211> 475
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220073a07d1
<400> 5564

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aaattacaac gaatctcatt tgcacactat ttcacagaca atagatgcat ataaagtata 120
aaccgaggag ccttattgtg gtcttattaa tttacacaag acaagaaaa aaaaatgaat 180
tcatgaggta tgagaggttt ataatatgaa atagttttgg ttcatgcga ttgtgcactc 240
aggaggaagg cctgtggga aacgcttagt gtcagtgcag tagttgtaaa tcatgtagtt 300
cttttgacc cactgaatcc tagcttgccc tgttgaatcc agtgattggt tcaaccatgc 360
ttggtttgat gatggattgt tggaggagca agatgagcct gaagaagaag tccaaacaca 420
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<210> 5565
<211> 552
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220073a08a1
<400> 5565

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ctgacggctt agtagcaaac ggcaacttcg agctgggtcc gaagccctcc gccctgaaag 180
gaactgtggt gattggtggc agccactcga tcccagaatg ggagatctct ggcttcgtgg 240
agtacataaa gtccggccag aagcagggcg acatgctgct cgtgggtccc gagggggcct 300

acgcggtgcg cctcgggaac gaggcctcca tcaagcagag gatcaagggtg atcaagggca 360
tgtactactc catcaccttc atgggtggccc gcacctgcgc gcaggaagag aggctcaaca 420
tatccgtcac tccagactgt ggcgtcattc ctattcagac tctgtatacc agcagtggat 480
gggacccgat tgcattcggt tcaggcggag aatgagacag tagagatgct gattcataac 540
cctggcaaag ag 552

<210> 5566
<211> 573
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073a08d1

<400> 5566

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acacgccacc gtatatatac tatacgtcta tagatgatac ttgttataca cacttatttt 120
tttcatattt aaatgaaatc aaactcgta cctctcaagc ctctaaagaa aaaaaataga 180
aaataagaag cattcttaat tattctccta actatatata aaatcaaagg ctcagaacct 240
atatatataa tacttttgatt cattagcctc acaccctagc aagcccaaatt tccctcatca 300
tggtttacgc aggctcacca acttgacatc atcaatcaca ggcccacaga gtgaagaaaa 360
gtcatcactt ctcatggtgt agaatgtgct aaggaacatg attcttggtc taggggtaac 420
agccacaaac ttgagtgtg cactgttgaa cctcctttg cctttggact catagggcac 480
cttgatggtg tcttttcctg caaaggcttt cacaatcatg gacccttcac atgagttgct 540
tgcattccca cagagaatga gagcacatag gtt 573

<210> 5567
<211> 566
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073a09a1

<400> 5567

ctaattcttc cgttgcttct caaatcgatt caattggggc gttttcaggg catcaatgga 60
gtgaaacagg agagagagag tccgtgttag atcagaaaaga agagacagag acggcgccac 120

caatggcggg agcagataaa gaattggaag agcaacttct tgaagccggg aacaagcttg 180
 tagatcctcc ttcgtcgggtg gaggacctcc tcgcactcct agaacaagtt gagagttgcc 240
 tatcaagggt tgaacagtcc ccgaccgact ctatgcaaaa tgcactctct ccatcattga 300
 aagcattgat tgcagacaaa cttttaaggc actcagatga tgatgtcaaa attgcagttg 360
 catcttgcac cagtgaataa acaagaatca ctgcacctga agctccttat gatgatgatc 420
 aatgaagga ggtatttcaa ttaatagtgt catcatttga aaatctacat gataagttaa 480
 gccgatcata ttcaaagatg atctcaattc tcgacactgg tgctaaagtc agatcatgtg 540
 tggtaatgct ggaccttgat gtgatg 566

<210> 5568
 <211> 560
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220073a09d1

<400> 5568

gtgcaaaatt gttaagtta ttacgaataa caaaatttac aatgaagggg ttcaaaatac 60
 tctcaaactc tctaaacca aaatacagag ctcttgtaa aggagacaac tactatctat 120
 ctaaccgaaa atgggttaca acggaaaaaa atagaaaata gttacagtta caacacaact 180
 tatgttagtg aatcaccatg ttggacggtc cctcgtacgt gactggatgc tccaccaggt 240
 gacataggat tggatgacct atataaaaga taaaagtact ggaccagacg atcattgatg 300
 tccattctat gtctatcatg tattgtccaa caatcatcaa tctccacctt gattcaataa 360
 tatttctgaa ttacaactaa ctcagttcat ttccagcaat ctacagtaag tagatccaga 420
 taatgcatga acttgtttct tagaaccggc ttcgtgaaca tatctgttg attctgcctc 480
 gtatcaactt tctggacctt gacccttttc tcaaaatgga tgaagtggct tctaattgtca 540
 atgtgcttag tcctctcatg 560

<210> 5569
 <211> 588
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220073a10a1

<400> 5569

gaaggtagtt gccaaagttc cataactaat acagtttgtc agcatgatga aacagaggaa 60
actcatgaaa atgaacctca acaagaaagt tctggatcgg aacttgagaa ggtttctgat 120
caggcaaaat ctacagcaga aacaaatggc agtaagcttt cagctgcggc caaacctttc 180
aatccaggaa tgttgccat gtctcaccat ttaaattcag cttccttcac aagcatgtat 240
gatacagatg ttagtcaagg catgcacgtg gagactgtgc ttccccctgc tgttgctagg 300
gtcccttggtg ggccatagatc gcctctgtat tatagaacca actatacttt tcgcatgaaa 360
catggttcta ctaaagggtca aacctctatc agagaaagaa gtggatttgg gtctacaaga 420
ataatgaatc cacatgcgcc tgagtttggt cccagaaatg cttcttanat agaagccaat 480
gatgccaaat caaatgtttc caatgagcat aactctttgt ctgacatagg catgtcagaa 540
gaaacaagct agatgaaaat ttgctgaaat caatggagtt ccacaaaa 588

<210> 5570

<211> 412

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073a10d1

<400> 5570

gaaataaaaa aattcccaag caaaaaatth tttttggggc tggcataaac ttggccaaca 60
attcacaatc ttggtaaggc ccgccatgat taagtgggaa tatatttccc catttctctg 120
gattacagct tatggcatgg ccctcttttg gggtttttgg gggccccctc cccaagggga 180
agccagcctc tgggggttcc aaaaaaatt tcccaaaggg ttctaaagta gtaaagttca 240
tggcatgccc tcggctttta tgccttttgg aaagggaatt cttgtgagaa aggtctagga 300
gcttttcaac ggggcaatth catgggctgc caaaagctth atttttttat atatatatat 360
atatatttat atacatctat atatataggg tcccacaaaa ttttttctth aa 412

<210> 5571

<211> 300

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073a11a1

<400> 5571

gttctaatacg cgagcggccg cccttttttt ttttttttta cgctcttcac aaactataac 60
ctggattcta acatatgatt acaacactga aactatacaa ccgtgcctta taaatgcaac 120
gaaccacagg actggactgg gcagcccaat cttcataacc actatagata tccacgcaca 180
cgctaaagag acttggaatc tctacaaaga ttaaacataa aactttgagg aattcttacg 240
gatccactga tttgactgcc tcttaggaca atcatctcga atgatatcta ccatgaactt 300

<210> 5572

<211> 513

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073a11d1

<400> 5572

aatatataag tgagtcttta cagcaagtgt tgagagggat aagatccata aaaaagttac 60
atcaaagact aaatatgtca gcactcagat attgtctttg ctatcacaag gtaaaaaaat 120
gaaaatgaga agtatacaga atttccctca cctatgctgc aggataatca aatcccttgt 180
tatacattgc tgagatctta tgttctctgg gtacaaaata ctacaaacaa tctcaaatta 240
aagaacagaa gattattttc cctttgcaaa tttctcaatc attaaatgtt cattgacaat 300
atcaaaaaat ggggaagtctc tttgagggtc agaataactt gctttgcata aatgatgtca 360
cacaggctca ctcaagtttc catgcctttt aaccttcaat ttgtgatctt cgcgatgaaag 420
tcttaaaatt ctgaccatca gctttacacc attaaaaaag aaaaggagca ctgtctacag 480
aggaacatcg acaccacggc tatgccggtc acg 513

<210> 5573

<211> 596

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073a12a1

<400> 5573

gtgggttgat atctgacaaa aaaatgggcg gaggaggagc aatgaggtcg gcggcggcga 60
agatcgccgg catcggcatt tccaaggcgg cgctccgtcc ttcggcgctc ccgacggagc 120

aggcgggtcca caacgcgtcg agaccgacat cggttggtcgg agtgaagggg gcgaaatcca 180
 ctgaggttgc gtcgcttcac ggggcagcgc cgtgggacga ctgggacttg gccgacgacg 240
 gcgatttggg cgcgccgagg atggtgttcg gctctgtccc cactttcgct gaagctaagg 300
 aagccaccgc agaattgaag gatgctattg atcaagtata tccttctcct gagtctcttc 360
 aatattcatc tcgtgggtgg caagtctctg ctttgtctcc tactgggtgg caagtctctg 420
 ctttgtctcc tactctttat gagccagtga acagatcttg tgaagttgat gctatttcag 480
 attcttcagc gccaagcat gccattcaag cttttcattt gctcagcaca agtcgtgatg 540
 gtgtttcaag tcaaaataca gtattcta atcgtaaaatt taaatgttta taaatg 596

<210> 5574
 <211> 580
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073a12d1
 <400> 5574

aaacaaaagg ttaaaaataa ataaataact atccaataag actttcaa at gttaatggaa 60
 ataaattacc gagtgcgaca catcgtcaat ttaaaaacag ttcagacttg attacatggg 120
 tttaaaaaga tcagaaaagt caacaaattg tagttttgct tccaagagtc ttaagctctc 180
 tttgtcacta tcaccattat cactattatt gccaaacctg tgaagggttc tcccatgcta 240
 attttactat ccatgaaact tgcttttagtg tcccatcgat catcaccaga catcttctct 300
 ttcatagcat caggtgttgg gaatatgttc tgaaggaaac cagacaccct acttaccaat 360
 tcaataacgg ttagctttac attctgtaga agatccatga aatcgaaaat cccattcccc 420
 gggtgagact catgtgacac tccaatctt tcaggggatt caactgtttc agaagtacaa 480
 cttgagaact tatccaattg ctcagtattt cctgctgctt caagatcagc cactgactgt 540
 tgtgactgga agaaactact gacggcagga ttttcatgac 580

<210> 5575
 <211> 310
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073b01a1

<400> 5575

ctcgagctat aggccaacca tggatccata tagctttaaa tgcatagaag cggttgcta 60
agtaatggtg ggtatgatga tgatgatgat gatgcaagta gtctgtgccg aagaggatat 120
aacgtgcatt gatagggata gggatgcact cctccaattc aaagttgcca ttgtggatga 180
ctatggcttg ctatcatatt gcaccactgc tgaatgctgt cttcaggaac ggatatcgct 240
gtaccaaccg taccgggcaa gttctaagtc tcgatcttca cggtcagact aactattaat 300
tcattatgga 310

<210> 5576

<211> 409

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073b01d1

<400> 5576

aatacatgat acgctatatt tcatttcaat agcacaacc tggttaaact agcctttttc 60
aaattatcta aacatggtat aagcacctca actgacagtg aaaaaatcta acgcgttcat 120
atcttccaac taattgcctt ttccaagcat taacaagctt agacattgga ggattccgat 180
ccacgagggc tcgtgtcttc cagggactag ttaagcttca gccatgcacc tttggtacat 240
ctatcaacag atatcgctac cttgacatga atactgcctg acagagtgtt cacgaacttg 300
aaataagcct gtctctcaag aaagcctgaa ctacattgag ccaaacacca cccaaaagct 360
aattacaaat tccaatgcca tacgcatgtt aaattcacga ctgaaaagt 409

<210> 5577

<211> 575

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220073b02a1

<400> 5577

agaagagcaa agagagtgag aaatgaagga agaagaagaa gaagagatgg caaatgaact 60
accgcgtaaa gcttttggtt gggctgcttt agacaattct ggcacccttg ccccttttca 120

tttctccaga agggaaaatg gcgtcgatga cgtcactctc aagattctct tctgcggggt 180
 ttgccactct gatctccaca ctctcaaaaa cgactgggggt ttcaccacct accctgtcgt 240
 tcctgggcat gaaattgttg gtgttgtagac agaagttgga aacaatgtga aaaacttcaa 300
 agtgggtgat aaagttggag ttggtgtgat agtggagtct tgcaaggaat gtgaaaattg 360
 ccaacaggat ctggagaatt actgtccccg ccctgtgttt acctataact ctcttatta 420
 tgatgggaca cgaacccaag gtggttattc taacattgtg gtcgtgcacc aacgttatgt 480
 gcttccggtt tctgagaact tgcccctnga tgcttgtgct tctctgctgc gtggctggat 540
 aactngtat agcccaattg aatattatgg gatga 575

<210> 5578
 <211> 566
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073b02d1
 <400> 5578

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 ttcaacatct tatagactag ttaataccac caatcttaac tacttcaaaa atactgacac 120
 atgatgcaaa gagttggaga atcacagtgg attctaaaaa cttgagaaag agctogccac 180
 atcaatcaca aagcgatatt tcacatcagc tctgctaagc ctttccatgg ctgtgttgat 240
 ctgatccatc ttaatcagct caatatctgc agttatgttg tgctttccgc agaaatcaag 300
 catttctga gtttctttca gccctccaaa gttgctcccc cctataagct ttcgtcctgc 360
 aactaaagga aagataggaa gctcaagggg ttgttaggc aaccctacag taactagctt 420
 cccattcagc ttcagcagac caagcagtgg aatcaaggaa tgaacagcag aaattgtgtc 480
 tatgatatag tccatgggtc ccaaagcagc cttcattttt gcagggtctg atgaaacaag 540
 ggaaaaatca gccccgagtc ggtcaa 566

<210> 5579
 <211> 493
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073b03a1

<400> 5579

cacaactcca ctcttagctg ccattgggtt ttcttcttcc atttctcttc ctttctaagc 60
ttttttcgat taccatttg gagattctgt cctaattggct cttgctcctt ccaaagtttc 120
ctccttttcc gggttttctc ccaaaccag tgttggggat gctctgaaaa acccaacttg 180
ctctgtttct ctgagctttg cgaatgtgaa acttggaagc agaaacctta gggtttgccg 240
ctcaactgtg cctctctcag ggggtgatttt cgaacccttc gaggagggtta agaaggggtga 300
acttgctgtt ccaacggctc cccaagtctc gcttgctcgt cagaactacg ctgatgagtg 360
cgaatctgcc attaatgagc agatgaatgt ggaatacaat gcttactatg cgtaccactc 420
cttgtttgca tactttgaca gggacaacgt ggctctcaag ggatttgcca agttcttcaa 480
ggaatctagt gag 493

<210> 5580

<211> 566

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073b03d1

<400> 5580

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actagcaatt acattactcc gagttcctaa atcccagtag ataggaaaaa catttaaata 120
ctatttttaa aatagaaaac aaccacagaac ttcagaaaag accaaaggta aacgaagact 180
actaataagg taattcaaga ttaagcagca tcttctaat caagaagtct ttgatcaaag 240
tgccaaacac cgtgaccctt tccaaccctt ctcaactgag ccacatactc tgaaattttc 300
ttaattgatt caacctgttc agacaaaaac tcgctttcaa tgaagtctgc caattgaggg 360
tcattgttgc gatctgccac actgtgcaca ttcagaagtt tctcattcac taacttctcc 420
aaagacaaag ctaattccat tgcatacaat gcateccctt tttccacatg ctcaaattct 480
gaggggacat tcttgatggc gtgaagaaca acccttcac cgcgagtatt ctgatatttc 540
atgaagcttt tagcgtgctc tctttc 566

<210> 5581

<211> 567

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073b04a1

<400> 5581

gagaaagcat caccagcttc acttccttta tccactgttt ctaacccaaa catgtgcatg 60
aagcctgagt ttagttccaa ggacactttc atagaagatg ctgccaatat gccacaaacc 120
actagtatta agcttttttg aagaacggtc tctatggtag gtaatcagaa gtcactgaac 180
atagatgatg atgatggtaa gccataact gtgaagtctg atgaagtaga tgatgttgag 240
aatgagaagc ttggccaatc aggagaatcc aagcaagtag atacacaatt atcacttggt 300
gtggtttagt gtaactggat tataacacct gatgctgatg gagctaatac aaccagcata 360
gagcccccaa aggagaacct atgcttcagt gaatgtgcac ctgatgcac ttttccgcag 420
tggagtttgt accaaggcct tccacctttc tacctgaggc catgcaatca ggtcctaaat 480
cccttgcttc ttaggccctc tttgaaagta gaaccagaga ggaggagagt tgttgactg 540
ttccacactg aatagttggg acatgaa 567

<210> 5582

<211> 548

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073b04d1

<400> 5582

cgttgaaaag catatatcaa atgttattgc ataataggct tgcagccttt tacatgtgct 60
actagcaatt acattactcc gagttcctaa atcccagtag ataggaaaa catttaaata 120
ctatttttaa atagaaatca acccagaact tcagaaaaga ccaaaggtaa acgaagacta 180
ctaataaggt aattcaagat taagcagcat cttcctaata aagaagtctt tgatcaaagt 240
gccaaacacc gtgacccttt ccaacccttc tcaactgagc cacatactct gaaattttct 300
taattgattc aacctgttca gacaaaaact cgctttcaat gaagtctgcc aattgagggt 360
cattgttgcg atctgccaca ctgtgcacat tcagaagttt ctcattcact aacttctcca 420
aagacaaagc taattccatt gcatacaatg catccccctt ttcacatgct caaattctga 480
ggggacattc ttgatggcgc gaaaaacaac cctttcaccc cgagtattct gatatttcat 540

gagctttt

548

<210> 5583
<211> 382
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073b05a1

<400> 5583

gcaaacttga gtggtgcact cccatcagct cacaggcacc tgctcagttg cgattgcgct 60
ctttccagat ctggtagatt ccgcacatgg ctcaaccgct cgcaagaag gactatgacc 120
gccacgacca agctgagtgt cctccctttt tgagaatcga agcgggagct gttcttcaag 180
aggccatagt ttttaatgac ccacaactag atgctaggag atgttcacag gttatcacac 240
aacttttata tctactgaat cagggacgag acatttaca agaccgaagc tcacataatg 300
gtcgttttgc tgcattctaa cttctccagt ctcggtatct agcgttaacg agactggctc 360
acctgagcat agaggagctt tc 382

<210> 5584
<211> 420
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073b05d1

<400> 5584

gatgatcatt gatgtcttct gtggctaata gtggtctgct aggcattttc aaggcggctg 60
ctccgtcctt cggcgtccc gacggaacat gcggtccaca acgcgtcctg acccgctcgt 120
tttgctggag tgaagggggc gaaatccact gaggttgctg cgcttcacgc ggcagcgccg 180
tgggacgact gggacttggc cgacgacggc gatttggacg tgccgaggat ggtgtgcggc 240
tctgttccca ctttagctga agctaataaa gccaccgcag aactgaatga tgctattgat 300
caagtatata catctctga gtctctcaa tattcatctc gtggtgggtca agtctatgct 360
ttgactccta ctggtgggtca agtactctgc tgctgtctgt actcgttatg agccagtgat 420

<210> 5585
<211> 488
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220073b06a1

<400> 5585

ggcgagtaat ggataccatg cttgtttccc gtgttagaat cttgcatata agatctttgc 60
ttgctagatc cacagagttg caatccatta aggtattgtc agttgagtgc tttcttgaaa 120
aggccaacgc tggacccagt agaagttcta gccgagcaag cagtcctgga agatcttcta 180
tgcaatatgt tgatgagcag atccagggat ttaaagttag tctaaagcca gaaaagaaat 240
ccaaattttc atctgttgtg ttgaagatac gtgggattga tgaggaaacc tggagacagc 300
aagtaactgg gggaaagctt agggaaatta gtgaggaagc aaaaaatttt gcaattggaa 360
acaaggctct tgctgcacta tttgtacata cccagcagg agaactgcag cgccaaatta 420
gatcctggct tgcagagaag tttgattttc tctcctgtat gggaaatgat gcaccagggg 480
ggaccact 488

<210> 5586

<211> 524

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220073b06d1

<400> 5586

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ctcttgattt ctttgacttc cccttattaa ctggttactc ttttatcgtc tgcgtactg 120
cgctaccctt ttgtcgctcg tctacgcctt tctgctgctc ggtaacgcta actacgaaac 180
ccgtactctc cctctctgac ccaaaacaac aacagaaccc aataatgcaa tccctccgaa 240
gaaggctctg gttcccatcg gattgggcac cgaagaaaag gaagccgata tcatgactca 300
cgttctgcgc cgagccggcg ccgacgaacc gttgcctacg aggagccgca gctccaagta 360
gaagccgccg gaggcaccaa actgggcgcc gataccgaca tttacgcgtg tcccgatcaa 420
gttttcgata tcgtttgctt tgccccggca gggagggacg cccggctctg caagactacg 480
gtaatgcaa gtgctgccgg aaattacgtg cagacaagct gagg 524

<210> 5587

<211> 469
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073b07a1

<400> 5587

gccggatata caagatgacc agacaatgct gtatctccag ccggacaggg agcttcgtca 60
acactgtacg ggatcaacga gcagttacac taagtcgcac gattaggagc tttatcttat 120
accaccttgt accaatggct ggagatcacc actactcttg cacctcctta tgagaccaca 180
gctgccatga cctacacact tttatcctcg accaaccttt tggatgctac agtgtagttc 240
atgctcatga ccatgttata tgagagtcac cactccaata cttaccgtac tacttgcgaa 300
ggcgtaatca atcatggcga gaatctggat caggatatta cccggcatga ttactacgac 360
aacaacaact gcactagcta cgtgcttcag atgagccctt ctcacatggc aatcatggct 420
aggtaaacac gccacctttg aaacatggat catgaggaca acatgctat 469

<210> 5588
<211> 375
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073b07d1

<400> 5588

aaaagaaaat gattgctata tctctgtgcg ctaatcctta cctagtgaac aggctgtgga 60
taccatacgg cacattcaac tagtagatat tacagttctt tgtttcataa cgatttgatc 120
cgtaacctct tgttgtctcc cattttatct atgtgactcg aataactcct ggctattgat 180
cactgaaatg gaagatattg aggactcatg agtggctgat cgaacatgaa gttccattgg 240
ggattagagc tcggaatatt gcaggaggaa cttcgatatt tctttgaagg gtacaatctc 300
atgggtgcgt aatgatgcat gttcgaaagg tggcgttttg gcctatccat gctttccatg 360
tggaagggt tcttc 375

<210> 5589
<211> 583
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220073b08a1

<400> 5589

gccggatata caagaagacc aaacatgctg tatctccaac cacagaggca gcatcatcaa 60
cactgcacgt gatcaatgag caattagatc aagcagaaga agaggagcaa atcaaagaca 120
acctttttacc aattttgaag aacaacacta ctcttgtccc tcctcaacaa accacactgc 180
tcatgtctca taaatcttta tccttttcca acctcttga tgccacagat tactccatgc 240
tcagcaccat cttatctgag aataaccact ccaataatta cttactcca agtgaagcct 300
tattcaataa ttgcgagaat ctggatcagg aaattacccc ccaaaattac tactacaaca 360
acaacaccaa tagctacttg tttcagaaga acccttcca catggaaaac atggctaggc 420
caaaacgcca gctttcaaac atggatcatg aggacaacat gatattatac ctttcaaaga 480
aatatcaaag ttctcttgc aattttccta actctaatec acaatggaac ttcattgtca 540
agcagtcact catgagtnct caatatcttt cattcagtga taa 583

<210> 5590
<211> 437
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073b08d1

<400> 5590

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taccatācgg cacattcaac tagtagatat ttacttctt tttttcattt ttattttctc 120
cctaaccctt ttttgttctt ttcttttctt tatgtgactc gtataatttt tggctattta 180
tcactgaaat ggaagatatt gaggactcat gagtggctgc ttgaacatga agttccattg 240
tggattagag ttaggaaaat tgcaagagga actttgatat ttctttgaag ggtataatat 300
catgttgccc tcatgatcca tgtttgaaag gtggcgtttt ggcttagcca tgttttccat 360
gtgggaaggg ttcttctgaa acacgtagct attggtgttt gtgatgcagc agtaattttg 420
gggggtaact tcctgat 437

<210> 5591
<211> 548

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073b09a1

<400> 5591

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ttttttcgat taccatttg gagattctgt cctaattggct cttgctcctt ccaaagtctc 120
ctccttttcc gggttttctc ccaaaccag tggtgggat gctctgaaa acccaacttg 180
ctctgtttct ctgagctttg cgaatgtgaa acttgaagc agaaacctta gggtttgtgc 240
ctcaactgtg cctctctcag ggggtgatttt cgaacccttc gaggagggtta agaagggtga 300
acttgctgtt ccaacggctc cccaagtctc gcttgctcgt cagaactacg ctgatgagtg 360
tgaatctgcc attaatgagc agataaatgt ggaatacaat gcttcctatg cgtaccactc 420
cttgtttgca tactttgaca gggacaacgt ggctctcaag ggatctgccc agttcttcaa 480
ggaatctagt gaggaagaaa gagagcacgc ttgaaagctc atgacatatc agaatactcg 540
cggtggaa 548

<210> 5592
<211> 406
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073b09d1

<400> 5592

aaaaaaggaa aaaaaagtat cggaccaatt agaaaaacca ttatagcca atcaaaaacc 60
ccggggttgc aagggaagaa aacccttttg gtgccaaca ttatgggtcc taccgccaac 120
ccccaaggc ccacccaaa acacctttct ctctttcttt gcccttttt atcccaaccg 180
gtctttgaaa tcaaagaaat tccaccaag aagaaccacc ctctcattc attcaatcca 240
actaaagtcc gaaggtttac acccaaaatc cagctttggg ttcacctggg ctcggataaa 300
cctttccagg cgggaaattc cccagttaa acccaaagcc tctggggggg gcacttttgt 360
agagcccggg ggaaaaaaa aggggtcacc ggggtcccc aggggg 406

<210> 5593
<211> 526

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073b10a1

<400> 5593

caaaaattcg atccgaatgt attagatctc aaatcatttc tactgaaaac tacagccatc 60
gaattccctg caattaacat aagcataacc cttttccaac ctttctctc ttcagatcgg 120
atcagatcag atccaccgcc atggatttca tgaaggctct cgatcaaacc gttcgagaaa 180
taaagagaga ggtgaatctg aagggtgctca agattccgga aatcgaacag aagggtgctgg 240
atgctactga taatgaacct tggggctctc atgggtactgt gctggcagag atttcacagg 300
ctaccaaaaa atttactgaa tgtcaaatac tcatgaatgt cttttggaca agactgggtg 360
aaactggaaa agattggcgc tatgtataca aggcattagc tgtcatagaa tatttggtag 420
cacatggatc tgaacgtgca gttgatgaca ttatagaaca tacttttcag atctctgcac 480
tttctagctt tgaatatgtt gaacctagtg cgaaggatgt gggact 526

<210> 5594
<211> 102
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073b10d1

<400> 5594

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tt 102

<210> 5595
<211> 442
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073b11a1

<400> 5595

cttcaaaaca ctcataacac aaagcacaat gcaaagctca tccttgagtt aaaaaatggc 60
agcagcttct tccatggctc tctcatcccc atccttgggt ggcaaggccg tgaagctggg 120
cccatcagcc ccagaagtgg gaagggtgag catgaggaag accgtcacca agcaggtctc 180

ctcaggaagc ccatggtacg gccagaccg agtcaagtac ttgggcccac tctctggcga 240
 gcccccgccc tacctaaccg gtgagttccc aggcgactac ggctgggaca ctgctgggct 300
 ttccgcagac ccagaaacct tcgccaagaa ccgcgaactc gaagtgatcc actccaggtg 360
 ggccatgctc ggagccttgg gctgctgctt cccagagctg ctgtcccgca acgggggtgaa 420
 gttcggagaa gccgtgtggt tc 442

<210> 5596
 <211> 455
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073b11d1

<400> 5596

acacatagtt aaccatttat atcatttatt gaaaaagtaa ttaatgtttg agtaaccaca 60
 tatattctat ttcattccatt tgaggaagtt tgtataaaac tacagatagt gtaggcagtt 120
 cctacccttg gctgaaaaga gatacttata aggcaaaatt taaaaataaa taaataataa 180
 ccatagatag caatgaatac aaaattaagc cacaagccac atgaagtaag ttgtccaaaa 240
 agtgactgca actgaggcca aagcatatgt ccatagcatg ataacagaac attcaccttc 300
 accagctcca aacaattgcg cgattggggc tatagccatt gctgggtggaa gtgcatattg 360
 aaggagaagc acaaactgat ataagggatc tggttgacc aaaccaact gtgttgctcc 420
 tttaataact agaataccca aaattggcag gaaaa 455

<210> 5597
 <211> 464
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073b12a1

<400> 5597

gttcgatata ttttgctgcc aattttgggt attgtagata ttaaaggagc aacacaggtg 60
 ggattggtgc aaccagatcc cttatatcag ttcgtgcttc ttcttcaata tgcacttgca 120
 ccagcaatgg ctataggcac aaatcgcgca tttgtttgga gctggtgaag gtgaatgttc 180
 tgttatgatg ctatggacat atgctttggc ctgaggtgca atcacttttt ggacaactta 240

cttcaagtgg cttgtggcctt aattggtgat tcattgctat ctatgggttat tatatattta 300
 tgtataacac gtgccttata aggatgtttt ttcacccagg ggttggaact gtctacacta 360
 tctgaaggat tatacaaact tcctcaaag gatgaaacag actctgtgtg gctactcaat 420
 catttattac tttctcaata aatgatataa aatgggttact atgt 464

<210> 5598
 <211> 429
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073b12d1

<400> 5598

acacatagtg taccatttat atcatttatt gtacaagtaa ttaatgtttg agtaaccaca 60
 tttattctat ttcattccatt cgtggaagtt tgtataacac tacagactgg gttagctggg 120
 cctaccctg gctgaaaaga gatacttatg aggcaaaatt tacaagtgtc taaatcatta 180
 ccatacattg caatgattac aaatttaatc cacaagccac atgaagtaag ttgccacta 240
 agtgactgca actgaagcca aggcataatg ccatagcatg attacagaac attcaccttt 300
 accagctcca aacgattgag cgattggggc tataggcatt gctgggtggat gcgcactctg 360
 acggagacgc acaaactgac attagggatc tgatcgctcc aaaccaact gcgatgctcc 420
 tttaataac 429

<210> 5599
 <211> 342
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073c01a1

<400> 5599

gtactgctct gccctatctt gaagacactc tacaaaattt tgatatcaag ggaacagtca 60
 tcacaagtta ttctgaaagc cttgacggat gaaaatctga atgatcctcg agaacgaatt 120
 gagattgcac aaagccatgt tttctacaag ccttcacttc ttggacaacc ctgattgttt 180
 tctcattggc aaaagccaaa tgtggatgca actatatatg gaagcatttg tcaactcaaa 240
 gagaatattt aaatgagcat gaatgtattg ttttgtgat gattttgtat tacattgttg 300

tatgtatata tgtcaaaata taagccacta agcaattgga ct

342

<210> 5600
<211> 450
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c01d1

<400> 5600

ttttgttttt tttttttttt tttttttttt tttttttttt tttttttttt tttctttctt 60
tttttttttt tttctttttt gactggttgt tctctaata caacaaaaat gaaaacagca 120
accataaaag aagacacgta taccctacaa ctcaaaagag tgccaccata cattttggca 180
cttttagtacg caggatgccg caatcgatag cagcttaaaa aggagaataa tataatcaca 240
ataacgggag agagagatac gaacaaaaag ccatgccaaa aagcttcaca agctgggtaa 300
tgccgacata aagaatgagc gaaaatgtga tgggaagaga ataaaaactg ggaattacac 360
tttggaacc caccaaagag aaaatgccgg ttgctaaggc ttgagaaaaa gaagcctcca 420
gctgctggct gtgaaggagt gacaccagac 450

<210> 5601
<211> 463
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c02a1

<400> 5601

ggcatcatgg cgaccagggc gcaatacctg atccaatggg cgctcttatg gactgcacca 60
cagtgcattc aacctcatga caaccaaggc gcacgccaca gcgcactcga acccgattcc 120
attcccatca tagaacattc atccttctac aaacaccgaa cgcgctcca accgcgactg 180
catagctcgc gcttgccgag aatggggcgc cttccatgta acgaacaaa ggggcctcca 240
ttcgctactc gattgcttgc gcttgccgag actgtggttc ttctcagaga cacgaatacc 300
tgacaagctc cgttactcct gcttcgctc cgctgcgag ggctacggca gtatactgct 360
cgctgcatct agatgcgac aaaaccacct gcgtctatgc cgctcatggat ggctacgccc 420
ctaactgac ccgtttcatg tctgatgagg ctatcgaagg cgg 463

<210> 5602
<211> 532
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c02d1

<400> 5602

acaatcaaat accaatttct ataatacttt gaatagttaa ttggtcaaatt tggcaaatta 60
gcgtcattct cagtttgagt tggattccaa gatccatatg aaaacagtat gttgatatca 120
gaactttttg catgagagtt aattttactt cctttcactc ccaagatata agacatgaga 180
ctaggagaga aaaaaagcat tagcttaagg atccagcaaa agtgcacaa tatttcgttt 240
tcctccaggg ccttttggtat accatgatga tacatagtct ccataaacia catcacggta 300
tttagctagt gagtcgttta tcagttcaga agcaggggaa atcttgactg tcttagcagg 360
gtcatgaaat gttgccacag agagccttgc tctatcagga ttagtgattg ccctatgctc 420
acagctcctg tactttccat tggttataat ctcagtttgg tcagcccata gaacaaggat 480
agcatctgac agaggctgaa cagtgaccca cttgtaccac ccttgagaac ct 532

<210> 5603
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c03a1

<400> 5603

caaaacactc ataacacaaa gcacaaagca aagctcatcc ttgagttaaa aaatggcagc 60
agcttcttcc atggctctct catccccatc cttggctggc aaggccgtga agctgggccc 120
atcagcccca gaagtgggaa ggtgagcat gaggaagacc gtcaccaagc aggtctcctc 180
aggaagccca tggtagggcc cagaccgagt caagtacttg ggcccattct ctggcgagcc 240
cccgtctac ctaaccggtg agttcccagg cgactacggc tgggacactg ctgggctttc 300
cgcagaccca gaaaccttcg ccaagaaccg tgaactcgaa gtgatccact ccaggtgggc 360
catgctcgga gccttgggct gcgtcttccc ggagttgctg tcccgcacgg ggtgaagttc 420
ggagaagccg tgtggctcaa ggccgggtcc cagatcttca gcgaggggtg gctcgactac 480

ttgggcaacc caagcctgat tcacgccag agcatcctcg ccatctgggc cacac 535

<210> 5604
<211> 432
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073c03d1

<400> 5604

gtaaaaagca agtaacatta agttggattc ggattcccaa gataattcac attatctgaa 60
gtacttcacc aaacacaaat ctaaaaactc tcaaaagtca ttctgttctt tgacgctcac 120
tttcggggga ccaagttggg ggcataggcc catgcgttgt tgttgacagg gtcagcaagg 180
tgatcggcga ggttctccaa tggacccttt ccggtgacaa tggcctgaac aaagaagcca 240
aacattgaga acatggccaa tcgtccgttc ttgagttcct tcaccttaag ctacgcaaaa 300
gcctctgggt catgagcaag gcccaatggg tcgaagctgc cacctgggta gattgggtca 360
gtgacctcac cgagggggcc accagcaata cggtaacctt taacggcacc cattaggata 420
acttgtgtgg cc 432

<210> 5605
<211> 500
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073c04a1

<400> 5605

gaggaaacaa gggtcacaag ataaagggga acttgggtgat tatgcgaaag aatgtgctgg 60
atatcaacag cattaccagt gttaaggggtg tcatcggaac cggcattaac atcattggag 120
gagtcgtcga caccgttact gctttggcgt cccacatctc catccagctc attagtcca 180
ccaaggctga tggacatggg aaaggaaaag ttggaaaggc tacaaattta agaggacaag 240
tgtcgttacc aaccttggga gctggcgaag atgcatacga tgttcatttt gaatgggaca 300
gtgacttcgg aattcccggt gcattttaca ttaagaactt catgcaagtt gagttctatc 360
tcaagtctct aactctcgaa gacattccaa accacggaac cattcacttc gtatgcaact 420
cctgcgttta caactcaaaa tcctaccatt ctgatcgcat gttctttgcc aacaatacat 480

atcttccaag cgagacaccg

500

<210> 5606
<211> 523
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c04d1

<400> 5606

aaaaatacca tttatcacgt actatcttgc atcagcttag agacttttct tttttattgc 60
atgtgagact aaactgtttt agttgactat attttcttgg atgttcctaa aattacaaat 120
ctacttttgc ttattagaag gaatcatctt cagaaaattg ggaagtgtta ttgaagaaac 180
atgtctgtct acgcacaagt agcttcaact gctaaacttt ttgccactcc tctacaaggg 240
tttccgaatg tctcacttga tactccaaca ctacaactgc ttgatccaat gcaggccttc 300
tgcacaatag aaagagcctt gttgctgctg cagcgtccgt ggtagaagtt accacaggtt 360
ccaaggggtg ttccatagct agcaaattta atggaagaga tgacttggtt atcatgaggg 420
caagtgagtg atagcacagg acctactttt cttcctgatt ctgtatctga gttccacaag 480
tctacgggtg gtgggtgaga atcggatata tgtgcacaca aac 523

<210> 5607
<211> 493
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c05a1

<400> 5607

atatcacctc cctgaagatg ctcagcatta ctaattgcc aagcttttct gcattgcctc 60
aacaatttgg aaacttggag aatttgaaac ttctaaggct aagttcctgt actgatttgc 120
aagagatacc aaattctatt ggaagacttt cgaatctaag acatatggac atctcaaact 180
gcattaacct tccaaattta ccagaggact ttggtaatct ttgtaatcta agaaatctgt 240
acatgacaag ttgtccaagg tgtgaattgc cacccttaat catcaatctt gagaatttaa 300
aagaggtggt atgtgatgaa gagacggctg cttcatggga agcttttaaa cctatgcttc 360
ccaatctaaa gatagatggt cctcaacttg atgttaactt aaattggctt catgaaattc 420

gctcctaagt cctaatacct gtttcatgct aatgtcattg tgtagtggc tttccggtt 480
gattagcaat ctt 493

<210> 5608
<211> 285
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c05d1

<400> 5608

gaataatgat ggggtatatg agtattattt tatttttggg atgagggaga atttatgcaa 60
aagagacaac aaaaaagaga caccattttg tataagggtg ctaacttggg ccttatacgt 120
agggggcgga tgcaaagtga tctggcgagg caaaagggcg ttttccccgt ggaagataaa 180
atgctgggca agatagaggc tggggccgag attgtgggcc tggcattaac aggttcaggg 240
gatgctgcag ctgggctgaa cgagaaatca ataacagtaa ggggt 285

<210> 5609
<211> 434
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c06a1

<400> 5609

cttcttccc ccgttctacc caacaagcac catttatacc attgaggagt ttacacaagt 60
gaacataggc agcaatgatt acatgggcaa ttacttcctt cccccgttct acccaacaag 120
caccatttat accattgagg agtttacaca agttctgatt gaagagttat ctctgaattt 180
acaggcttta catgacattg gagcaagaaa gtatgccttg gctgggttgg gccttatagg 240
atgcacccca ggtatggcga gtgctcatgg gacaaatgga tcatgtgctg aagagcaaaa 300
tctcgctgca ttcaatttca ataacaagct taaagctcga gtggatcaat tcaacaatga 360
tttctattat gctaattcca aattcatctt tataaacact caagcattgg ccattgagct 420
tcgcgataaa tatg 434

<210> 5610
<211> 434

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c06d1

<400> 5610

caatacaaat tggatcatat tgcaggcagg atagccaatt tattcactgg attcattcca 60
ctttgtcgtt caattcaggg gcaggccatt acttaataca tattcaactc acaattattt 120
caactccata tgaacgacta catgataacc agaacttatt caggggcact aagttgtgaa 180
ggggactcat ttgtgagctc caattccatc ttaatttcat gatcaacaag gtgcttgata 240
tccattggat aagtgaaggc tgaattagcg gtagaattat aagatgtcaa tgcattgagt 300
aggttccatt gtcggtggg atggaaagca tcaaaaaaca catagccatt cctattatag 360
cacggctctt gatcaggaac acactcccct gttaatcccg gtaggcagca aggagtttcc 420
ggaaccggaa aacc 434

<210> 5611
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c07a1

<400> 5611

tagggctcga gaaacaattc tattataatt ctggcaggct cgtgagttgt atatgacatg 60
tttctctgtg caccatttgt tcttgtctca aagtaaaagt gtgtgtatat aaaagaggtc 120
cctcttctca gttctttgaa aacctcaaca actcaacacg ttgcctctac tctctgcagc 180
ttttaatttg ttgcaggca cacaaccatg gctgctctct ccaacggcca cgacgcttcc 240
ttcttcaaga tgccctccat caagttcacc aagctcttca tcaatggaga atttgttgat 300
tccctttcag ggaaggagtt tgaaacaata gatccagga caggagaagt gattacaaga 360
atcgcagaat gagcaaaaga tgacattgat gttgctgtca aagcggcacg tgacgctttc 420
gactatggtc catggccccg tatgccgggt gctgaaagag caaatatcat gatgaaatgg 480
gcagacttaa ttgatcagaa catccaggac atagcagcat tggatgccat tgatg 535

<210> 5612
<211> 566

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073c07d1

<400> 5612

gactaaaaat gtatttaaac acttattaat ttgatgaagt atacgtttta ggaagctctt 60
ctatagttca ccattgttta tatccacaca acacaaaaaa aaataaaaaa aatcaaagcc 120
agggagaatt gtaaattggga gttacaacag atttaacttg aagatacttg tgtagggtt 180
ccattccaaa atctcttcca aatccactca tcttgtagcc ccataagga atgtcatccc 240
caaaggcaaa ataacagttg atccaaacaa tgctgcact aatggacctt gacacactgt 300
agtgtgtgtc caaactcttt gtcacaatgc ctgatgctag gccatacctt gtattattgg 360
caatcttaat tgcattgatg acactcttaa acttcatcaa agccattaca gggccaaata 420
tttcatcttg tactataagc atgtctctct taacattgga gaaaattgta ggctcaatgt 480
agtaaccctt gttgcccact cttttgcccc ctgtcaaaag ggttgacact tctttctttc 540
catgctcgat taggaaagaa tctttt 566

<210> 5613
<211> 522
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073c08a1

<400> 5613

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aatttcaatt cccaccttgt ttctttcttc tcacgtgtgc agacctatct tattcactca 120
ctcaccacct aggggttttct ttccacttc gtagctatgc tcgactcact ccgcgttttt 180
ccgatcgaac gacgcggttt tggcgagttt tagcttcggt tcgtctcccg acgcggactc 240
attgcttgct ttcgtttccc acgcgattgt tggaggagtc gtgttgcggt cgttgaccga 300
ggaggtgcaa ttagggtttc caaattcgg ttttgatga ggctctgaga tggggattta 360
ggttcttagg agcgggtgtg ttgttggtgc tgatcgattt ggagtgggga acttgcaag 420
tgaagaggga tgttctactc tcagtttatt ttggccaaga cagggccact tgcgactata 480
tggatagctg cgcatttgga gaggaagctc cgcaggacca gg 522

<210> 5614
<211> 508
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220073c08d1

<400> 5614

acagaaatga tgtaccttgt ccactgacag ttaaattaca aggtgctttc tgttacataa 60
atatgatgcc tagagaaagc agaatgtcat tcttactagg agggatgcgt ttaaacgaca 120
tacaaattag cctctgcaac ttacagattg tgacatttta caaaaatata tacattaaga 180
cccagaataa tcaataggat gattattata caagtgccac ttcaaaaact aaaactgaac 240
agctaaaccc tatctccaaa aaattataaa tgaaaagcca tatatggcta gaatcgggga 300
gaaatgtcga aaatattatc ccaaccctgc agataccagc caaactacca ccgaatggat 360
ctttacaact atatctgtca ttcctacatg aggtttcaga aatctgactg cataagcttc 420
attcgaggct atatctgac atttgcaaag ggttntgact gttctacatg gacataatcc 480
ctggtcttga gaaccagagt ttcaaaaa 508

<210> 5615
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073c09a1

<400> 5615

ttttcagttc tcaactattca tttttgaccg ccattgtgat cagtttctca cattgattga 60
aaagacccca ttttctcta tgctctcca ctctccaccc tccaccattc acacgcagag 120
caacacgacg atctcaccga caaccttttt gtcttcgtta acacacacat ctgacacctg 180
gcgtgtcctt ttctcactgc agattaaata aatattaatt aactaataaa tgtacatata 240
tagtagttgc ttaacctggc tctatattct tcactctcct tctctccca tttgattccc 300
ttccctctca ccaagtttta tgatctctgt catttcctca actactttta ttttccattt 360
atatctactc acaaagcaac atcatttcca cttgcatttc acacgcatgt gagacacgac 420

ccaaataaca cacaaagcaa agtaagggtg ctttgcattg tgttaacaaa caaggcaacc 480
tcattat 487

<210> 5616
<211> 547
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c09d1

<400> 5616

aataaaactc caacaatttt attaatgaaa atactttaca atttcagcac atatacactg 60
ccatgaatat aattttgcac gctataatta tctttcgcca caaacaatgg agtagtgctc 120
aacaaagcac aaaccaacaa taataacagt tttagttgca ttaatttaca caagaaagta 180
aattaacgta ataggcaaca catgtgtgtc acgttcatga ggatcatttt ataatgatat 240
gcaacattga attaaatatt ctcatgcaat ggagcattct ggaggaaggc cttgagggaa 300
acgtctgata tcagtgcaat aattgtaaatt catgtaattc ttttgcaccc aacggatctt 360
tgccctgccc gtggcgcca gtgattggcc agtggaggaa gaagtttggg aattgaagtt 420
tctgtatgag gctgtgaatg gggccttgct ccaatccgtt tttacaagcc cacccttgt 480
ggcccaatcc tcagcgttcc aaagactaga gtatattctc atgggttggc tctttgggaa 540
tggaacc 547

<210> 5617
<211> 577
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c10a1

<400> 5617

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tttataccct tctcgaatac aaactctctc tgtgaaaaag aacaaacccg atttggtttc 120
tctggatgac ttctattgca accaactccc tctcctcctt caccagcgaa accctaaccc 180
cttcatcacc actcccagc tctccacct catgcaatgg aagctcacgc gcggcaaatg 240
gaggccgcgt ctgttggatt tcgtgtcgtc cctagacgac gccgttgtga aatccgcttc 300

tcagaaggcg tttcagagcc ttcccgatgt atccaaagcc gtttccgagc tcaactgtgtt 360
gaaaggcggtt ggtcccgcca cgcctctgc cgttttggtt accttcgccc ctcaactaac 420
ccctttcatg tctgatgaag ctatggaagc agctcttgga agctcaaaag attattcact 480
gaagcaatat ataaaatttg tggatcagtt gcacaggaaa gccgaaggac taagttcaga 540
aggcgattcc cttaccccat ctgatgtacd aagggct 577

<210> 5618
<211> 599
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c10d1

<400> 5618

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gtttcaaata catgaaaag ttccaaaact aacttcaata actaatgtgt aaccaaagac 120
ctctaacaaa tagcaacata aaagccagcc cttegtttgg taatgcatta ttaccctta 180
ttatttgcta tctgcagcaa ctgccgaac tagaggcttc attctttgcc atctgcagcc 240
cgaagggaaac caagttgaac tggggcttga gtctgaacca ctttgatga tccatagcct 300
gataaatcaa caccttctgc cttctctttc tcaagctgct ctttgatcca aaagtatgta 360
attctcagcc catccttcaa cttcatagtt ggagcccagc caagtttctc tttgattaat 420
gtattgtctg aattacgacc ccgaacacct ttagggccag gaatatggta tattggtata 480
ttcttatect aaagctaaga acaatctcag ccatctcatt catgctgacc atttcatcac 540
ttccaatatt caccggcttc cggaagtctg attagtcaat ctagtacacc ttcacacac 599

<210> 5619
<211> 534
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c11a1

<400> 5619

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tctgcaaagc gcacttttgc gctttgggggt tcccttggtg cttgttatca ctttctgtta 120

tgctacttct actgctgcag caacaactca agtttcaggg aatgaagagc tgccaaagac 180
 aaacctaagt gggcatgatg aagaagcaaa attcggattt tttcatcata aaccaatatt 240
 caagaaacat attccaattc cagtatataa acctgtacca aagccatttc cagtgtataa 300
 acctatacca aagccagttc cagttccagt gtacaagcct attccaaagc cagtgtataa 360
 gcctattcca aagccagttc cagtgtacaa gcctatacca aagccagttc cagttccagt 420
 gtataagcct attccaaagc cagtgtacaa gcctattccg aagccagtgt ataagcctat 480
 tccaaagcca gttccagtgt acaagcctat accaaaagcc agttcagttt cagt 534

<210> 5620
 <211> 401
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073c11d1

<400> 5620

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 atccatccaa atcaatttac aacggcaatg ctgaaaaaat ttttggggca aatgaaccgc 120
 attttttcta atccaatgcc caaaagtccc atgggatttt tacaaaaacc ccgttgatgt 180
 tttaaaccac acgtagcttt ttgggaaata aaaggggata acgttctaag gccaataatt 240
 tttttggacc cggccaaatc attttatggg gttgaaattg gaggaattgt tttgggaatt 300
 ggaaaatgta aaaaaccggg ctttatcaaa tttgggggaa gtttaggaat aggttttctg 360
 aaaaaaggct ctggcttaaa aaatgacttt ggcttaaggg a 401

<210> 5621
 <211> 352
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073c12a1

<400> 5621

ctccttttta atcttttatt ggcgtggtct gcctgttctc tctttgtact ggcgtgaatc 60
 ttggtgaagc tcagtgtgac gctgtgggga gacatggtaa actgcattaa actatggttg 120
 tgcttcatgt actgctgtat cttgaagtca aggctgaagg gatggagatg tgacttatag 180

aacacgtaat gggatcgggtg gctagtata gttgggattt gaacatcata aacgaatttc 240
gaagatgcat actccaattc cagcatttaa acctgtgcc aatcgcaactc tcagagtttt 300
gaccgttacc ataaccctt tcagttgcag tgtgctatcc tattgccaaag cc 352

<210> 5622
<211> 360
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073c12d1

<400> 5622

gaaaggaagg gcaaaaatta accacacgaa aaaccggaaa cgggatctaa ctttgaaata 60
gccacccgg gaaaccctac aacggcactg atccccaatt tataagggcc aaggaaccgg 120
ggcgttgaa acccagaagc caaacaatcc acaacggatt ttgacaaaag cccaaaccat 180
gcccaaaaac aaccacaaac accctcggaa aaaaagggg aaaacggcca aagaccaata 240
acttaacagg gcccgccaa cccacctaaa ggaatgggac ccgtccaaa ggggtggggga 300
accgggaaaa agcccatacc cggctttaa acctttggg gacccccccg gatgaaattc 360

<210> 5623
<211> 543
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073d01a1

<400> 5623

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aatgcttgct agatcgggta ttgaaatcgg cttcagtgac aaaagaactt caagaaaagg 120
atgttgaaac aaatgctctt gacaaacttg tgatgatggc ttatgagaaa tacatggcta 180
gccgggggtcc tagctcatca ggtgggaaaa atgcaagcaa caaatcgcc aagcaagctg 240
cattgggatt tgttaaaca acattggaac gatgccaaca atttgaagat acaggcaaga 300
gctgcttcaa tgagcctttg tataaggata tgttccttgc tgcttcttcc cagctaagta 360
ttgttcggca attagatggc atagaggctg aatccacaaa acctgtgtct tccttttctc 420
tggaagcaag aactgcttcc atgggttcac agcagaacctt ttcacaatta agtcagatat 480

gaaaaatcat gatctcgaat catcagatat tctttctgct attaatgggt catctgaaca 540
aac 543

<210> 5624
<211> 556
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073d01d1

<400> 5624

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tataagagct acaaccagga tacagtgttt gctaacatac aatcactagg aatactaact 120
tgtacctaga acaaaaagac ttctacagtgg aagtcgtgaa cgtcaatact agcaaaatcc 180
aaaacagttg gatctgtcat tagaaacagt ttggagaagg aagtctacca aagaatatat 240
attaacctaa ttgagagcag gattagccat aaaaccatcc tacgtaacta gtcatttctt 300
aaaggacttt tgtttccttt gtcattggta taatgaacag tactatacaa agaaagcagt 360
ttcaaaccat catattcaag tctgaaaggt catccatggg aatttcaagg ccataaagt 420
catcatgatc ttgcaatcca tcatcctcaa tattcaacca tgaaccaaga tcagcacctt 480
ggatcatcaag atcaccagga acaccaagca cattcattcc aggtagttgc aagttggaca 540
tatcaatagg ttcatg 556

<210> 5625
<211> 587
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073d02a1

<400> 5625

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taaggaggatt tccaagggaa agaagggtgg caagaagaaa gccgctgatc cctttgccaa 120
gaaggactgg tacgatatca aggcccttc cgtctttcag gtcaagaatg ttggcaaaac 180
cctcgtctct cgtaccagg gaaccaagat tgcttctgaa ggactcaaac atagagtgtt 240
tgaggctctca ttggctgatc tccaaggaga tgaagaccat gccttcaaga agattcgttt 300

gagagctgag gatgttcaag ggaaaaatgt tctgacaaac ttttggggaa tggatttcac 360
 aactgataag ttgaagtcct tggcgcgaa atggcaaact ttaattgaag ctcatgtgga 420
 tgtcaagacc actgataatt atacgttgag gatgttctgc attggcttta ccaagaggcg 480
 ttagtatcag gtgaagagga ccttgatgc acaatcaaag ccagtcagac agatcgcatg 540
 aagatgagag agataatggt aaaccagca gctgcctgtg atttgaa 587

<210> 5626
 <211> 459
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073d02d1

<400> 5626

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 ggggtgcccc ataaaccttt ggcaaaaaaa ccgattttga ttgcaaaaa caaaggggtt 120
 tctaaagggc aaaacaaaac tgaaaaataa atttttggaa aagccccggg gattttaaac 180
 aacccaaaat gccttttcag ccgatcaag cccaactcc ttaagggggt tccttagcca 240
 aggggtttatt aaaggggctt tcccccttgg gcccaacatt ttttggggaa tccccatgaa 300
 ccccatcag ttttccaga tcaaacttgg gggctttaa aatcttaact ttacgaataa 360
 acccattttg gagggggtat ttgccaaagg gggcctcttt aaacccttt ccaatcattt 420
 caggggtgaa cttggcccc aattttttta aaatacagg 459

<210> 5627
 <211> 489
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073d03a1

<400> 5627

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 gaaacacgac gaggttttca caaagcttct agacgaggtc aacgcttcgg agctcaagag 120
 ccacggcgtg atcgccaata gcttctacga gctcgagccg gtttacgccg atttttaccg 180
 gaaggagctc gggagaagag cgtggcattt gggaccgggt tgtttgagca atagggacgc 240

cgaggaaaaa gcatgcagag gaagagaagc tgctattgat gaacacgagt gtctgaagtg 300
gctcgactca aaggaaccaa attcagttgt gtatttgtgt ttcggcagca tgacagcggt 360
cttcgacgcg caactcaaag aaatcgcttt aggtatggag gcttcagggc agaatttcatt 420
atgggctgtc aaataagggg tgaatgaaaa attggaatgg ttaccagaag ggtttgagga 480
gagaattttt 489

<210> 5628
<211> 552
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073d03d1

<400> 5628

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catcagcaat ttcccacaaa ccggcctaag ttacatgca tacatgacac aacaatcatc 120
aacaggcacg cgacctcaaa ttcctctatc aatgagccga aatcgttgta agaagatcct 180
ccttcttaca cagcacgctt tgccattcga gcaagctctt ttgctctggg cctcatttcc 240
tctggctgct cttcaaccat gatccttctc acagcctttt taaccgggttc cttcttcaca 300
gggtcccttt ccatcatccc aatgcacggt tgaacgccta cacttacccc aatcttaact 360
atgtccgtca aaaacttagc attgtaaaat agctctgtcg acattggcca tgtcaccatt 420
ggcacccttg cacacaccct cttcaatact gagttccacc cacaatgtgt cacaaaccct 480
ccaacggatt catggtccaa aatcattact tggggtgccc aaccttgat gatcaaacc 540
ttttcttgac ct 552

<210> 5629
<211> 547
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073d04a1

<400> 5629

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gacaaaagaa gcaagattcc gaggagttaa caaggatttt gcatctacaa tatttgcagc 120

aatatgtttg atttgggtgt accgagtggc aaacatcccc acagttgcaa gtgggagatg 180
gacttggatt agtgttatgg tgtcagagtt atgttttgga atatactgga tcatcactca 240
atctgttcgt tggaaaatcg tatatcaaac gcctttcaaa cacaggctct taaaaagata 300
tgatgaggag agtttaccag cagtggacat ttttgtgtgc acggctgacc caacacttga 360
gccaccatgc atggtgatga atacggtatt atcagcaatg gcgtacaatt atcctgcgaa 420
taaattgagt gtgtatctct ctgacgatgg aagctcagag ctcacattct atgctctctt 480
aaaagcctcc atttctccaa acattgggta cctttctgta gaggatcaat gttgacctaa 540
gtcacca 547

<210> 5630
<211> 527
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073d04d1
<400> 5630

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caatgtgaag aagggcggtta catactccct ggccctcgtc tcttctctga actatttaat 120
ccaagtccat aaaatggagc aaatcaatac tagctttcaa tttagaatca aacattgaaa 180
ctaaattgac attgaaaaat aacctactcg tttctttcaa tataagatat ggacacaacca 240
tgaataaaca ctaggcattg acgtaaccgc taagaaatgt ggagcagctt atgtatggga 300
ggcacattca accttgtgag attcaaggac atgccttgtg gcttccatgg ctacctgtcc 360
actgacatag tgctggcgac acacaggcat gtagacatca acaccaccaa tcagctcaat 420
ctgcttatcc tgtgtcttcc tcagggtaaa gcaagcacgc tttccacaga tttcacatct 480
ggcagttaac ttggttactg aatcacgcag gggaattata ttcagga 527

<210> 5631
<211> 520
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073d05a1
<400> 5631

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 tcgccttcga atccagagcc tctctcggtt cctcactctt ctcacatcga gcgcaacgcc 120
 aaaaaatcga atttcacgat ggaagagttg gagcagtgga aggaacaact ttctcacttc 180
 gctaacctag ctttggatcg tcttctcgag gttcctccga atcagctcta cgcagctgct 240
 gcaatcgtga ttttcacaac gctgcttctt ctctcaattc ggttggtcaa gcgtgcgaag 300
 tcaaacactg ttgtggtggc cgggctcagc gggagtggaa aaactgttat cttctatcag 360
 cttagggatg gctctactca tcagggtact gttacatcaa tggagcctaa tgaaggcact 420
 tttattcttc acaacgagaa aacaaggaag ggcaagataa aacctgttca tgttggtgat 480
 gttcctgggc attctcggtc tcgacccaaa ctggatgagt 520

<210> 5632
 <211> 325
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073d05d1

<400> 5632

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 ggctcaaaaa atttccaaac aagggatatt cccattatt tcctctcaac tttggggatt 120
 acccaaaaat ttcaagctgg gaattacccc ccccgccata tttgcaagcc ttttccact 180
 tatttgaagt ttttatttcc ctatgtccaa tgggctctaa tttccccgca aaattgattc 240
 ccaaagcctt tggttatcaa ttttcacctt tggcctggaa tctaaactaa ggggccccca 300
 acaccagaat cccccaatt ttcag 325

<210> 5633
 <211> 248
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073d06a1

<400> 5633

gcaacttggg gattgggaat gtcattgttg cgatacatc gcagagacat gaaaagactt 60
 tcatcgaacg ccaaagacac gagaattgca ctgactggcg gaagcgggtcc accactaaat 120

tgттаатgtc gagagggcga tgcgcctaga ctagatatta cgggtactgc tggtacgacc 180
 catttgagga aggtggcagc tttggcagat ttactggacc ggtgagagtg attgcttatg 240
 ataacaac 248

<210> 5634
 <211> 258
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220073d06d1

<400> 5634

gttcgaaagg ctgttctctg atttataaga gctgcgggca agatacaaag cccgataaaa 60
 aggaatcact aggaaaatcc acaggcacgg aaaggcacca cgctggggaa agcaaccgtt 120
 aatgtacagc aatctggcga aacacaaaag caccggaagg cgggacaaac ctaacctgga 180
 caaagaggac cccctggccc ggcgcataaa aatgcaaata cacctatccc caaggggcac 240
 taattcccc cgaaaaag 258

<210> 5635
 <211> 347
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220073d07a1

<400> 5635

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 ttattgcac aaaccttgct tgctacatgc ctttacttct tggacaaccc tgtttgtatt 180
 cttattggct atagctcaat gtagttgcaa ctatatttgg aagcttttgc ctactcaacg 240
 tgaattttta tctgagcatg attgtattgt tttgtgatgg actctgaatt acattgttgc 300
 ttgtctatat ggcttaattt ttgccactta tcaattggac tttactt 347

<210> 5636
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073d07d1

<400> 5636

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caagggatta atttccaatt ctacactttt tgcaagactt tccgcttaaa acttttccaa 120
agacttcctt gatttcaagc cccaaacttt taatgcagtt tttttaaccc ataagcgttt 180
taaaaaaatt cccctttttt tatggaatat aaaatccagc cctgccccaa atcaattgaa 240
cttgggcatt ccatggaaga atttcaagga atcttgcaaa tatttccagc ttggtccatt 300
atcaggggtc ccaaataacg attccgaatc aaaagggagg ggccaaattc acctttttca 360
acctgtcgca aaatcttttt tataccttta gcctatggag ctgctctagg ggc 413

<210> 5637

<211> 391

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073d08d1

<400> 5637

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caagggataa attaccaatt ctacactttt tgcaagactt tccgcttaaa acttttccaa 120
agacttcctt gatatcaagc cccaaacttt taatgcagtt tttttaacct ataagcgttt 180
aaaaaaaatt ccccatTTTT tatgtaatat aaaatccaac catgccccaa atcaattgaa 240
cttgggcata ccatggaaga atttcaagta atcttgccaa tatttccagc ttggtccatt 300
attaggggtc ccaaattacg attcccaatc agaaggaagg ggccaaattc acctttttca 360
acctggcgca aaatcttttt tataccttta g 391

<210> 5638

<211> 592

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073d09a1

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ttctcctttt gctctgttct cacttccttc ttctcgattc tccttcgca gcaaccgcg 120
 tcgaatcccc aatcgcttct ttgcctcaa cccatcacc tggtcgcca ataatttctg 180
 ttgcaccatt caaaatcgaa gtttcaaac ggagccctcg ccgcctccct ccggcgagat 240
 tcacgtcatt gtggggccca tggtcgccg aaaaaccaca tcgctccttc gtcggattca 300
 gtcggaaacc accaacggca gaaatgtagc aataattaaa tcaagcaagg atacaagata 360
 tggattagac tcaattgtta cacacgatgg tgcagaatta ccatgttggg cactggaaaa 420
 cttatcttca ttcaagcaga agtttggaaat tgatgcttat gagaagctgg atgtgattgg 480
 tattgatgaa gctcaattct ctgatgacct ttatgaaatc tggcttcagc tgctgatcat 540
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<210> 5639
 <211> 167
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220073d09d1

<400> 5639

cgtatggcca tcaagcttaa tttctcttct cttcaggaga ttctctaggt tctctgtctc 60
 agctctaacc ttttgtgcca gttcacgcaa tttctgacat tcctcaaaat tgtgtttatt 120
 ttcttccttg agctgcatgt tactctcacg aagtaagttc atttctc 167

<210> 5640
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220073d10a1

<400> 5640

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 gaatgatttg actgaagtca aacgtctaag tcttgggaat gaaagggatg ccctaaaacc 180
 caatcatcgt cgtgggcatg gtcaaggaca tgggcatggg catgggcatg ggcatggaca 240
 tggacatgga catgggcatg ggcttgatca tgaagatcct tccgttatga aaaagcctgt 300

taagatgtcc gtgcctcaat ttggaggggtg ggaacacatg cccgcgggag tgcctactga 360
ctactcgatg gggttcaacc aagcttgtga aagaatgatg actcaaatga atgaatcgac 420
tgaagtcaaa cgtgtacgtc ttggcaatga aagggatgcc c 461

<210> 5641
<211> 402
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073d10d1

<400> 5641

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gggtccgggc caaaacaaac aaggcccaa gccccgctt gaattatggg ccctgaaggg 120
gttcggggga aaaaaaagaa aattggggaa aaaagaatgg gaaaccaaag gccgggcaat 180
tagaccattg gacccaacc ccccaaatcg gggccctatt tccaaggttt ttcccggtta 240
aacccccggg ttttgaaccg gggaaaaagg ggatggaagg gtttgggccc ccccgagccc 300
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cccctttata gggggcaaac ccccttgggc cccttggggg gg 402

<210> 5642
<211> 551
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073d11a1

<400> 5642

cgctcttccc atctgcatca aaggattttg cctactttgt tgttctattt cccttcggtt 60
cgattaggtt ctctcttttt ctgaatcttc gctttcttct tcgttggttt ttctttgtta 120
tatcgatcat atgatgagaa aaaaactgca acaatatgat tggattcggt ccatgattcc 180
tagtatttaa gtctctgatg attagtcttg ctctccctct tcttttgatg tttgaaatta 240
atttacaatt tctttccggt ttcatTTTTT taatttggtc tcgatttttt gggttagaga 300
gtttgattag aaaaaatagc gaagagagat gatgattatt acattgggtc gtgtttctga 360
atcacctga ccgacaaccc ttaccaattt ctgatctcca atcgagata atttttttta 420

atattttaatt tttaaatttc ttaatttttag cttaattttt gcgtggctct ggctcagtga 480
tcttctgccca ttgttgcaagt atacgctatt ccgactcaat atgtgagtag agatatcatc 540
atagatgaga g 551

<210> 5643
<211> 456
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073d11d1
<400> 5643

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tttgtttttt tttttttttt tttttttttt tttttttttt tggggcccta aaaaaaacc 120
cttttttaaa aaccctttgg gccccaaaaa aaaagggggg taaaaaaaat ttggggggaa 180
aaaaaaaaaa aaggggccca acgggggaaa acgggggcaa aaaccgggga aaaaaattta 240
accccaaacc ttggaaaaaa gaaggggcca aaaggggggg attatttttg gcctccttcc 300
cccccaaaaa aggggttaaa aaaggccttt aaaggggggg cctttcccca caaatattggg 360
ggccgggagg gtaaagacac cccctcggg gggggggggg gaaaagggc cctgggaaac 420
ccccgggcgc ccaaaaaaaa ttgggggtgt ttcccc 456

<210> 5644
<211> 556
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073d12a1
<400> 5644

acagagtgtc acaaacacac acagatcaa actcaaagt cgcctcaaac ctctcttgtt 60
ctcgtgggcc cactccctaa ttttccttct ctaccogatt tactctaacc accctacaca 120
cttacttatg agagagagag agttcagtgc tattgtatag aatcaccacc ccattaccct 180
gcatacacca tttaatgcat tgatttcac tgggtcagtc acaataacag aagaaaaaaa 240
gaaaggaaaa aaccctctt tgatgatgga caccacttca tccctgtgt cccttcaaac 300
ccaaaaaacc accttccaag aacttgaga agcttctacc aagccatata agaaggcat 360

agtagcaacc ttaatgggag gaggtttatt caaagaagac aactactttg cgtcccttct 420
gagatcctca gagaaaaaag cccttcatga gctgacaacc aagctcaaag cttcatttga 480
agactctccc tetgatgcat ccatgtgggg aattcccctg cctggagggtg atgacatagc 540
tgacgtcatt ctcttc 556

<210> 5645
<211> 299
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073d12d1

<400> 5645

aaaaaaacat ttgccccca aaaacaccca agagaaaaaa aaaccccggt gaaaaaaccc 60
caaaaagggg gacacaaaaa aaaaaaaacc ccaaaaaaaa aaacccccga aaaaaaaaaa 120
cccaaaaaaa gggaccccag caaaaaaacc ccaaaaaaaa gggggacaaa aaaaagccgc 180
ccaaaacctt ttccaaaaaa aagcggggca aaaaaccccc tttaaggggg caccacaaaa 240
aaaagaggaa gcctataacc ccacaggaga aaggagacacc cccagggacc ccggagagg 299

<210> 5646
<211> 494
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073e01a1

<400> 5646

tgaatttatg gctaataata gagaggctga aaaagaagct tttgaagaag cagaaggaga 60
aagaagggct cggaagaag aggaggcaca gagagcaaga gaagaggggtg aaagaaggcg 120
gaaggagagg gatcataaat atggaaatag gaggcacgt cgaaggccgg atccccgtga 180
tatggatgat taccatgatg aactttgaag actgcactaa gggtaggtgg caggtgcgta 240
attacaacac taaaatgcat ctttgaagtt gcgaattgta ggaccaaagc tgcaattgca 300
ctgacatgac cgagctgtac tgaactgtaa catctgaaat attagcgtca gtcattatgt 360
gtaacttcat ttcttttcga ttattatgca acagctggtc tgcttctgct actgctactg 420
tattcaaagg atggaagtta tactttctct attctgttac cgaaaggggg gataagaaag 480

aaattatcct ttag

494

<210> 5647
<211> 497
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073e01d1

<400> 5647

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attccatcct ttgaatacag tagcagtagc agaagcagac cagctgttac ctaataatcg 120
aaaagaaatg aagttaaaca taatgactga cgctaattt tcagatgtta cagttcagta 180
cagctcggca tggtcagtg c aattgcagct ttggtcctac aattcacaac ttcaaagatg 240
catttttagtg ttgtaattac gcacctgcca cctaccctta gtgcagtctt caaagttcat 300
catggtaatc atccatatca cggggatccg gccttcgacg atgccttcta tttccatatt 360
tatgatccct ctgcttgcta cttctttcac cctcttctct tgctctctgt gcctcctctt 420
cttaccgagc ccttttttct ttttctgctt cttcaaaagc ttctttttca gcctctctat 480
tattagccat aaattca 497

<210> 5648
<211> 545
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073e02a1

<400> 5648

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ctctgagcct gggcatgcta aggtgtttgg tcatgttcgt aagctttcaa atgagagtgt 120
tgaaagcgat ggaagctcaa tacgaggtag tgacatgtct aattttggga ttccaagttc 180
atctggtgat ggctctcatg accttcctgg atctgctttg gtttcaagag agacagatat 240
tatgggccac acaaagtcga agtctactgg tgatactcaa ttagtccttc cactagatca 300
acgcaataaa ttgaacagga ttctttcaac catgcagcga acgctaggca ctgcaaaaac 360
tgatatggag gaccttatag ttagattaaa tcaagaaata gctgcaaagg attttctcgc 420

aacaaagctt aaggatttgg aagtagaact tgaaactacc aaacagaaaa ataaggagaa 480
 ctgcgagcag gctattctaa ttgagagaga aaggtttacc caaatgcagt gtgatatgga 540
 ggaac 545

<210> 5649
 <211> 574
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220073e02d1

<400> 5649

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 gttcagaaaa aaatgtggtg caaggctcgt atgtgtgtaa agtaaaaact cgtagtacia 120
 gttgaaatac attaggggag ctacggcact cagtatatta actcacctat tggaaacggc 180
 aaatgatcat ccaccgggat aagaaacagt gggctcttgg tcaaaagccg aagaacaata 240
 tatatattag cacttaacat atatttctaa atacttgta gagtctccac cgaaggggaa 300
 tcatcacttg ctgtcatatc caatttgaga gcctgccttg tgacgcgggtt tgtctgtttt 360
 ctcaatctaa cattatcgat gaacaaatct gctatgatct ttctcacttc atcatcacag 420
 attacacat cttttatgtc attggtgggt ctatctacat tggaaagccgc acttccgtag 480
 tccttctcta agttttctac ctctgctagt aggatgtcca ttnggtcatc agatgtcggt 540
 aactgattaa aagctcagtt gatgatgatg aatt 574

<210> 5650
 <211> 299
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073e03a1

<400> 5650

acaactatat tgagctgtga tctgcttgag atgcagcttc atatggctcg tgggaggagc 60
 ccggggccact aggaccccg gcttactgac tcgaagccct ctcatgggga ttcggatcct 120
 cgagactacc catgatgtac tcagctgcag gtgcacatt cagaatgcat gtcacggggc 180
 atggatgaca catgggaccc atttggttg caacttatgg cgcggtacct gctaggacga 240

catcaggtgg attgcctaac tggattacgg gagagcgatc taccgcttgg ccttcgcta 299

<210> 5651
<211> 531
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220073e04a1

<400> 5651

caacatcaaa agaggacaaa aaagaggaaa atggagtctc aagagtcaac agcatagatg 60
caaatgatga ttcagtaagc aataatatct caacaaatca atcggaggaa tcagcgaatg 120
ctcggaaaaga cgagatgcct agttctttca ggttttgggt gatattcttg tgggcatttt 180
ctggagtagg tttcttggtt gttatttttg tgggtgattc aggtcataga agaagaggaa 240
caaggttaaa acacggtaga aggagaagaa gcttgcatag aggattcatg gaaacgaata 300
gccgtgaccg gcatagccgt ggtgtcgatg ttcctctgta gacagtgcct cttttctttt 360
ttaatggtgt aaagctgatg gtcagaattt taagactttc atgcgaagat cacaaattga 420
aggttaaaag gcatggaaac ttgagtgagc ctgtgtgaca tcanttatgc aaagcacgtt 480
attctgaccc tcaaggagac ttcccatttt tgatattgtc atgaacattt a 531

<210> 5652
<211> 354
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073e04d1

<400> 5652

gacactatat gatatacctt gaaatgatgc catgtgccca aagcaacgct taattaaaac 60
ctatgtcgaa gtgccctagt acccaccgaa cgtcgagttc cataacctac caaacgcgtc 120
taattttacg caacgtacag atgccgaaaa tgtatcaaag ccggcgcgga ttaataagaa 180
cccatcgggtg ctaaakatct tacagacact aatccttatt acatatggaa gtcacttaat 240
agatactctg ctccaattgc agcccaagta tatacaacct gttgcttggc cacattcatt 300
atgaagtgca tggcctaatt cacctgtgat atctaggcct atgccaagcc acac 354

<210> 5653
<211> 526
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073e05a1

<400> 5653

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cctagtactc tataaatagc atttgcacgc accttagtct tcacccaaat actcctcttg 120
gcatcttgtg ttgtgtccct cttttaagct atttccttct cttaacacaa ttggttgtgc 180
caattgccat agtcaccaac caattaacaa aggtatatat atcatcatat catcaccaaa 240
tgaaaaatat tgggttggtt tttcttgtgg tgggtggctac ttttgtggtg gcagccacag 300
ctggttagctt ttaccaagac ttgaaataa cgtgggggtgg tgagcgtgcc aaaatctatg 360
agaatggaaa ccttctcaca ctctcccttg acagagcctc tggctctggc tttcgttcca 420
aaaaagagta cttgttcgga aaaattgaca tgcagctcaa gcttgtgcct ggcaactctg 480
ctggaacaag tactgcctat ttattatctt ctctgggcct actcat 526

<210> 5654
<211> 58
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073e05d1

<400> 5654

gctatctcgt gtacgtgcat cgcataatcat ctccggaatt ttattcccggtg gtacgact 58

<210> 5655
<211> 577
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073e06a1

<400> 5655

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ctttccacag cctcaagccc cctctccgtc tccctccccc caacgccgcc gtctccgcag 120

ccgccttcgc cctcttctc cgccgcaact cgcagttccc ggactcctcc accgccttta 180
tcgactctgc caccggccac cgctctctc acggcgagct cctccaccgc gccaaaaccc 240
tagcctcgaa tctcgccaca atcctcaaac tcaccaaagg cgacacagcg ctcgttctct 300
caccaaatat tctccaagtt cggatcctct gcttcgcgct tctttctctc ggcgtaggtcg 360
tctccccgc gaacctctc tccacgcgct ccgagctcac gcgcttctc aacatcagca 420
accctcaat tgtcttcaca gtaacctacg gtcgtgaaaa aacacgcgag tttcaagtga 480
aaaccgtgct cctggactct cccgagttcg acacgctcac gaagtctcag attcacacaa 540
aatacatcca agagtgtgat tctcatcaga ggggact 577

<210> 5656
<211> 585
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073e06d1
<400> 5656

gagaagttac tatactacat catttgataa agttcaagat ctattttaca aaagaaggtc 60
tttcattaca tataaattct taaactgaac acacgcattg cttcttcttt ttttttttca 120
tttgagcaa aagactaaat caaacaccac ttataaaacg aaaatgaagc atattacaac 180
ctagagagcg ccagttttaa gtccttctc agtatctttc ccgcagcatt cttgggtatg 240
gaattaacaa atgctacacg ccttattttc ttgtacggtg aaacctgttt ggcaacaaaa 300
tcaataactt ctgctgcgcc aagggaactt tgaggttgtc tcaccacaaa cgccatgggc 360
acttggcctg ctacttcac agggatgga ataactgcag catcatttat ctctgaatga 420
gataggagta actcttctag ctctgccgga gcaacctggt agcccttgta tttaatcaac 480
tctttcaacc tatctacaac atacaagaaa cctttgctat caaaattaca gatgtcccca 540
gtccttaacc acccatccac caaagttgct gaagtgcttt tgggt 585

<210> 5657
<211> 464
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073e07a1

<400> 5657

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cttcgccaag aaccgtgaac tcgaagtgat cactccagg tgggccatgc tcggagcctt 120
gggctgcgtc ttcccggagt tgctgtcccg caacggggtg aagttcggag aagccgtgtg 180
gttcaaggcc ggggtcccaga tcttcagcga ggggtgggctc gactacttgg gcaacccaag 240
cctgatccac gccagagca tcttcgccat ctgggccaca cacgttatcc taatgggtgc 300
cgttgaaggt taccgtattg ctggtggccc cctctgtgag gtcactgacc caatctaccc 360
aggtggcagc ttggacccat tgggccttgc tgatgacca gaggcttttg ctgagcttaa 420
ggtgaaagaa ctcacgaacg gacgattggc catgttctct atgt 464

<210> 5658

<211> 360

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073e07d1

<400> 5658

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ggacttcacc aaacccaaat tttaaaaacc ctcaaaagtc atttcgttct ttgacgctca 120
ctttccgggg accaaattgg gggcattagc ccaggcgttg ttgttgacag ggtcagcaag 180
gggatcggcg aggttctcca atggaccctt tccggggaca atggcctgaa caaagaagcc 240
aaaccttgag aacatggcca atcgtcggtt cttgaggtcc cttaccttaa gtcagcaaa 300
agcctttggg gcatcaacaa ggcccaatgg gtcgaaactg ccacctgggt aaattgggtc 360

<210> 5659

<211> 296

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073e08a1

<400> 5659

ctagaacagc ttcacttaat cttcctcatt actaaaacga gtctgttaag agagaaggtc 60
atggagacag gtacagtgtc cccggaggat atagactcag agggagagca acttgatgag 120

atatcagtc t tatagggat atctattgtg aatttcgcgt cttccatttt gggtacagac 180
atcaggggttc ttacagacac cagacgatat cacatgctta aagattcata atttcagata 240
actgttttct gtatttgaaa cttatataat aagaagaatg cttgggattg ctgatt 296

<210> 5660
<211> 275
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073e08d1

<400> 5660

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agaaaatagc ttccacgacc aatgttacgg tgacgagcat atgattaccc cataataggc 120
ttgatggaat attgaatcct cacatgataa gtgcggcaga catgtacctc tgctggggga 180
aagaacgagg ccaatttgaa ctactattt ggctttaagg ccttgacttt cgagggcatg 240
aacgtgtggt gttgagctgt cgcgatctga attct 275

<210> 5661
<211> 354
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073e09a1

<400> 5661

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tcaggcttat tgaactgcga agcaatatgg ctgccatata tataaatgac taccgagctt 120
cttaaggatt atatatcggc taaatctagc gtcgataggc tggtagtatc gaaactggct 180
ctgattcaga gacaggacga gtatgaatgg ttagcaaaga cacttatgga gagtcattga 240
caaagagcta cttttggatg aagggcactt caacgcctga tctaacatat gccttggatt 300
aaccacatgg aataaccagc ctgaatatct tgcgattaca ttaaaacctg cata 354

<210> 5662
<211> 498
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073e09d1

<400> 5662

tgtggcgagat ggcgtgggtg ttgctttgct gcttgattag tcaaccact ggcagtggaa 60
ttcctgctga acccaggttg tgcattggtga agtttctgct gttggagctg ggatgacaat 120
ggagttaaag gggatgatgg cgttataggt gaaagaggca cttgctgagg agaattttgt 180
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tggacatgtg gcattaatgc atttgatgca gcaagctgct gctggtgctg cagatatcgt 300
tgctgcagtt gtctttcctt tgccaaccga acagcatagg cttgttgctg tgaattagt 360
gcatgactag gaccttgaag atgaggactg ctgagatggg actgctgctg ggggagttgg 420
tgtggcttgt gggcatgttc tgagtaaggc tgaacaggtg gtgttgctg attgctaagg 480
cagaactcgg ccacacag 498

<210> 5663

<211> 545

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073e10a1

<400> 5663

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agctgcagca acttttcttg ttcaataccc atcaaagca aatacaaaga cactctcttt 120
ttttaattac tactgtgata tgttccttct ttccttctga atctgaccaa ccagtaggac 180
tccttcaaag ggattttgag tattgtttga attgctggag acctgagagt gaaaactaac 240
tccacaatcc atggataaag atgctagggt ggaagagact gttgatttgc gaaccaatgt 300
ggagttggtg agatcagtct ctgataagca tcatgatctt ttaaggccat ctgctcggaa 360
ctattcaaga ggacaatcaa cagatacaac tggccgtgga aagggaagt atgccttaat 420
tagagacca gaggacttcc aaatgggagt ttatgataag cccttccatg ttttgatgt 480
ggaatcggat ggttctcatt tctttctgga tttctatgcc ctctatgtg gttctatgct 540
acaat 545

<210> 5664

<211> 356
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073e10d1

<400> 5664

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atgcgcgaga aacttaaca gcaagtttta caagcgaaat ttgcttcttt aacacgtaac 120
tgcagacgct gaacctttca actgccccaa attcataact taaccattcc taggtggatc 180
aaggaatcat aatgcttcta ttaagcttta ttggaaacca gggaaaggtc tgtgccaacc 240
attgagcccc taaatgggga taccgttggg aattcctctg aaagggaatc cctcctcact 300
agaagggtaa agccaagggt caggcatttt agcccgcca ctgggggtct tcaacg 356

<210> 5665
<211> 298
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073e11a1

<400> 5665

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ctaattcgca tcttcaattt gactaacaga cccatatatt tcatcataac atagcatcaa 120
taatggtctt atattggtag acgtggaccg aatggacatg gaccggttca aggtctcgta 180
gagcgacgcg gaagtcgatg acttggataa gctcgaggag cggcacgggc ccatgcactg 240
gccgctcatg atccggtaga ttgtgggccg gactgggaag tagcgcaggc tactgggg 298

<210> 5666
<211> 327
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073e11d1

<400> 5666

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aactcacaac tttcttcagt ctcaaccccc ctggtatgtt ggagccactt aaagtctagc 120

actccctggg ccctggggga ccccaaggcg gatatatcc cgggagccat aaggcacggc 180
 tggggcattc aatggatcct ccatacctg gtagcccagg tttggataca catctgcatc 240
 ataccgacca agatccgaac cgaggtaatg ttctgtgccc ttaaacgcag tatcaggggc 300
 gaagcattac gacgaacccg tgaatac 327

<210> 5667
 <211> 494
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073e12a1
 <400> 5667

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 gccaccgcac cttcgtctcc tggcgccgct tcatccacca cgaccgcggc agcgccggag 120
 tcaccgtcgc caaactcccg gcgactatcc ggtcgccgct cttctaccgc tcctggctcg 180
 acttccggaa ggtcctccac gactggttcc ggaagcgacg attccaaccc ggtatcatgt 240
 ccgggttgac tcggtcaatt aagcttccaa ttgattcaca caacaacaac aaaaactac 300
 aaaccaataa caaaaacaaa tactcttctt gtgccgtagt tggaaacagc ggaattttgt 360
 tgaatagaga ctatggtagt gaaattgatt cccatgagtt tgtgataagg ttgaacaatg 420
 ctagagttga tcactctgag accaagggtg gaaaaaaaac tagcatttca ttcatgaata 480
 gtaacatctt gcat 494

<210> 5668
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073e12d1
 <400> 5668

gatggagtca aagaactgta ttgatctaac caacaaaatt tacacttggg gttgccttga 60
 ggcttcatgt tggacagttc aacacaaaca acaaaaacga atcttgaatc agtattttgc 120
 tttccactat ctgtgcattt cacaagtatt acaataacag aacaacaatt cacagaggcc 180
 cttcaccacc acttgcagca gcagcagcag ttcagcacc atcattgata catgacaaca 240

ggaggaacct taaacctatc ctcaagaaag ggtataggcc ttttcccatc cacaagggtcc 300
ctataaaacg cataactcagc ctcatagtca tgcaagtga gctcagcctt ctggtttagtg 360
tggtaatggt gcttagcaga agtcgatttc ccaaacccaa aaatgctaac cctatcacia 420
atcccccagg ccagcatcac agcctgcac cctgaagagt agtgaaaaag agaaccatca 480
tgagcc 486

<210> 5669
<211> 532
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073f01a1

<400> 5669

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cttatctata aaagaagaaa caaaggcacc tcatccacca aaacagagct agtttagtta 120
tctactcttt tctgcatgtt tgttctctca acgactcctc cgcgaaagag tattattcaa 180
tattttggtt ggggtgaatc cgggggttga agcgttgacg acatcacggc tattctaaga 240
gtgtctcgct cctcattca tgtccgatct gtacgacgga ggacgggtag ttgcgtaact 300
ggcgtaacc ctccgccga cgggtgggct ggtgctttgc cttctgaagg tggtagccct 360
tcagacttgc tcttactcgc tgggggtggt ttcttctagt ttcttctcct ttttcattac 420
ctttagcctg cataggttta aatatgaaca aaaaacagcg actttgtgac taggtaagat 480
caccgtttct ttctcttctt cttcttcttc ttctatacta ctactactac ta 532

<210> 5670
<211> 558
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073f01d1

<400> 5670

aacagataac tgaatttatt atttctcaga gtcaagtcaa gcattatgat acatcatacc 60
ccaaaacacc aacaacagta ctcagggtgag cagttattac atcgtacttt cacatgaacg 120
cggtataaaa ggcagataaa agcaaataca tacaacacag gaccttaagg ctcaagcaca 180

gcacaatact atgtgactta aacggtgaca caattcagca attattctta aagcactacg 240
gatttgctga atttggtcat aattttagag ccttgtagt gtagaatcac acattcttgt 300
gaaccagcta ccaccacagt aggggtgtcg cttgtgctga ctgcatcaac ttctttgaca 360
ctttcaacgt tgacatctc caattcacca cagccaatgg cttcaaaaat aagatcattg 420
acttcttgaa acctctcttg agagagggac acctctgcaa gaagccttca agcattgcct 480
tcagatgcct catcataatc cttcttactc tttagaacca tgtgcccact aatttccac 540
acagcatgat tcacttgg 558

<210> 5671
<211> 478
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073f02a1
<400> 5671

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aactgtcggc tcgagggcta ccaagacact ctatacacc aagcccacag acaattctac 120
aggagctgca tcgttacagg aacaatcgat ttcattcttg gcgacgcagc tgtcgtgttc 180
cagaactgca tcatggtagt taggaagcca ttggaaaacc agcagaacat ggtgactgct 240
caagggagag tcgacaagca acaagtcact ggaattgtgc tgcagaaatg cacaatcaag 300
gctgatgatt cactgggtcc agagaaggac aagatcagga gctaccttgg gaggccgtgg 360
aaggagtctc cgagaacaat tgtgatggaa tcggaaatag gtgacttcat tcaccccgat 420
ggatggacag cttgggaggg agactttgct ctcaagacat tgtactatgc tgagtatg 478

<210> 5672
<211> 433
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073f02d1
<400> 5672

ggcaatcaag gaaaatttta ttgacatctc caagttcact acagactcaa cctgttttta 60
tcaacaagaa aaggatcttc tatttacctt aacatttggg gacccattc tttgcaagga 120

tttttcacc cactgcagtt cgggccagat tcccatttac gattaaatgg ttttaaaaaa 180
 tttccgggaa aagaaagaat gaaaaatacc attcattaaa atgagcaaga ccctcaagtt 240
 taatttccgg ggggcctaaa taacatgtag caacagcagc tcaaaggctt aagccagaac 300
 ccaagtggta tgaaattcta agcaaagggg cttaattgga caaaccttgg gcggcaggca 360
 cccccctgtt ctggagccct gtgcctttcc agaaagatcc cacagtgaac tgggtagccc 420
 caccctggt aat 433

<210> 5673
 <211> 542
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220073f03a1

<400> 5673
 aaaaaaatt aacattaaat atattttaca gaccaaattg acaacctttg tttatttgaa 60
 ccaggaaagt agtttaaaaa ctttgaaata taaaattacc tagaatagtg gagacaatcg 120
 atatcttata ccatttgtgg tcttattatg cttaaattgc cttgaaggag ccttgacaaa 180
 tggactgcaa ataaaaaagt tttattgtct ttctatccgt tattccattg tttagtcttt 240
 ataacgtcac atgctacttt ttagatgaaa gtacaaaaaa aaaagtaaaa aagcttcact 300
 agtggaaatca ctgatgtgaa aactttcgct aagaatgtct atttttttta ttggcttttc 360
 atctaggatt atcaaatttc ctatctagat tggcttatgg ctctgtgtgc tctaatttca 420
 tatgctcatc tgatcttcac anaaatagc tcaactgacat tgttcacgat gatttaatag 480
 aggcgcatat attgatatct tttattttct ggcactggta tggattttga caggatcatgg 540
 ca 542

<210> 5674
 <211> 511
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220073f03d1

<400> 5674
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atgtcaaata gttatgggaa aaaaatgttt ttctagatag tacataaccc aagcgtgaac 120
 tgagccgtca cttgtcacat aaattcggct atttcttcat taagaaacct acaaacaata 180
 cgctggaaac gtccaggaga tagaacttgt taggatcttg tattctgcta tatgtgtgac 240
 cctttaatgt caaaactatt gtatagaata agctcgtatc acttccacca ctgggtgcttg 300
 acacattgga cactttcttc tactttggag caaatcatta gcacattttg aacatgtgca 360
 catgtgcccc catctgtaca acaaagaatc aatattgctt tcgcagcata tacagcaaag 420
 tcctttcctc acacattccc atttagattt atctctgttg aaacaccgtc atgtattcct 480
 gatgaaccag ttgagcgatt tagggctgca g 511

<210> 5675
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073f04a1
 <400> 5675

gttcgatata ttttcctgcc aattttgggt attctagtta ttaaaggagc aacacagttg 60
 ggtttgggtgc aaccagatcc cttatatcag tttgtgcttc tccttcaata tgcacttcca 120
 ccagcaatgg ctataggcac aatcgcgcaa ttgtttggag ctgggtgaagg tgaatgttct 180
 gttatcatgc tatggacata tgctttggcc tcagttgcag tcaacttttg gacaacttac 240
 ttcatgtggc ttgtggctta attttgtatt cattgctatc tatgggttatt atttatttat 300
 ttttaaattt tgccttataa gtatctcttt tcagccaggg gtaggaactg cctacactat 360
 ctgtagcttt atacaaactt cctcaaattg atgaaataga atatatgggg ctactcaaac 420
 attaattact tttcaataaa tgatataaat ggtttactat gtgt 464

<210> 5676
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073f04d1
 <400> 5676

attcaaaaac caggaggaaa tagtaacagt ttaacccaaa accccataaa aattcaggga 60

accgggcccc gaaataatta aaaaggcaaa aaccgatgaa ttcaaataaa taaccgaag 120
aaggcccggg ctttttttta accaaagaag gggaaagaaa tgaataaaca aaaaaatggg 180
gtttccatgg caaccagggg gggggggggg atagcccctg ggatctggcc cgtttaaagg 240
ggggagcccc gaaaactttg acccctttcc accgtgtttt tggacaagac cctgtttttc 300
cgggggccgg aaaatcccca tttggggggg ggaaaaaac cggggggttc aagcctaggg 360
aggggaaaac caccggg 377

<210> 5677
<211> 167
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220073f05a1
<400> 5677

gagaaatgaa cttacttcgt gagagtaaca tgcagctcag ggaagaaaat aaacacaatt 60
ttgaggaatg tcagaaattg cgtgaactgg cacaaaaggt tagagctgag acagagaacc 120
tagagaatct cctgaaggaa agagaaatta agcttgatgg ccatacg 167

<210> 5678
<211> 518
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220073f05d1
<400> 5678

gcgcaccttt attgcttgat attcagagtc tttcactgat ggcaacttcg gcagccacgc 60
gcgccaccgc accttcgtct cctggcgccg cttcatccac cacgaccgcg gcagcgccgg 120
agtcaccgcc gccaaactac cggggactat tcggtcgccg ctcttctacc gtccttggt 180
cgacttcggg aaggctctcc acgactgggt cgggaagcga cgattccaac ccggtatcat 240
gtccgggttg actcgggtcaa ttaagcttcc aattgattca cacaacaaca acaacaaact 300
acataccaat aacaaaaaca aatactcttc ctgtgccgta gttggaaaca gcggaattcc 360
gttgaataga gactatggta gtgaaattga gtcccatgag tttgtgacta ggtcgaacaa 420
tgctagagtt gatcactttg agaccaatgt tggaaaaaaa actagcattt cattcatgaa 480

tagttacatc ttgcatttgt gtgctagcag gggagggt

518

<210> 5679

<211> 513

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073f06a1

<400> 5679

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ttcactagcc tcttctgcat tctgtgcctt tccacggagg ccagtggatg ttccattcgg 120
cagaaactac gttcccaactt gggcttttga tcacatcaaa tacttcaatg gaggttctga 180
gattcaactt catcttgaca agtacactgg tactggcttc cagtccaaag ggtcatactt 240
gtttggtcac ttcagcatga acataacgat ggttcctggc gattcagctg gcacagtcac 300
tgctttctat gtatcttctc aaaatgcgga gcacgatgag atagattttg agttcttggg 360
gaacagaaca ggacaacctt acattttgca gacaaatgtg ttcaccggat gcaagggtga 420
cagatagcaa agaatctttc tctgggtctga tccaacaaaa gcctaccaca gatactctgt 480
gcttgtgcac atgtatcaaa ttgtgttctt aga 513

<210> 5680

<211> 547

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220073f06d1

<400> 5680

aaagtagaat tacacaacat atataatfff attatagagg ctctgctctg tattcaaacc 60
tcaactcatca attacacagc tcaaacaata caatgataat aaataatggt aggaataaag 120
tatatggtaa atgatgaatc aataatacaa taagaaactt atggtagcaa ccataaacat 180
agtactacat gtgaatttaa atgtcacggg ttcttctaca ttcagggtga agctgagggt 240
agcggcttct gtcagtgcag tagttgtaga tgggtgtattt cctgcgcacc cacctgagcc 300
atctccattg agaagcatca agatcatgat actgtgcttg atcccaccac ctcttgcctt 360

gtgtagcaca gaactttgca ttcactgaag cttcacaccc atcaacgtgg aaccctttgt 420
 attctgctat gaaggggtgct ttggaccaat ctgttttctc caaaccaccc cttgtggccc 480
 agtcatcagc attccacaag ctgtngtaca cccttcatgg gttggtcaaa ggggaacttc 540
 actccca 547

<210> 5681
 <211> 592
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073f07a1

<400> 5681

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 tcgcaattcc tccgtgtttc tgttttgata actcgcaaat attctactta atagcccgac 120
 atctcgttcc ctgaatactg attttgagct ttccctgat ttttttaggg aaacaaatta 180
 ttgccccttc cttttttcca atcatctgca gtgaaaaaa aaaaaaaac tatatctgaa 240
 gtttattggg gatcgggtat tgggaaatgc ctcgagactt gtcacgatcc cgatcgcta 300
 cctataggcg gaggcattca ccatctcctg tgggacacag gtatagcagg aggagcagaa 360
 gagacagaag cagatctcct tattcgctc actgttacag caggcgaaaa agtcgttcta 420
 tttaccaag aggtcacaga agtccttcta caactccaag acgtggtaga agccgttctc 480
 catctggcta acgatacaga agacatagaa gtaggagttc ctcattgcct cctactcgtg 540
 aatcttacag tccaagtctt gtgtcagtag agcacaaaag tgccactgaa aa 592

<210> 5682
 <211> 215
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073f07d1

<400> 5682

gttctaaggc ttttatttta atttattatc tcaatataaa taaacaaaac caaacaaca 60
 aacaataaca gaacccta acaaaaaatc cacacaaaat cgaccttcg cccaacagtc 120
 attaaaaccg actcgccaga aacgtcaaac taaaaaaca aaaaagaaca cctacaaaac 180

aaccacagca caaacaccaa agacaagaac aacac

215

<210> 5683
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073f08a1

<400> 5683

caaataattca gggaatggat gaatagtggg tctagggatc atgcatcaaa tcattcccaa 60
ggaaataatt caaggggaga atggccttggg gaaactgagc aggaaagggt gagtgccata 120
agggagtggg tacagatgag cagccagcag agaggcgttt cttctgggga aagtagggaa 180
gaacaatctt ctgaaattgg taccocaaatc gaatgcgttc gtgatggatt tgttggttaat 240
cagaatgagg gccaacacca aactgagcat acacggcggg gaatccgtaa attacgtggt 300
cgacaggtgt ttcttgatat gcttaagaaa gctgagatgg aaaggcaaag agaagttcaa 360
gaattgttga accatcgagt tgtatctcat tttccccatc gcaatcgcat acaggccttg 420
cttagaggca gggtctcgag aaatgacaga tcgattgata attacacgtc cac 473

<210> 5684
<211> 471
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073f08d1

<400> 5684

ggtgtgagtt taaaacaatg cttaaagcc gaatgcaaag aaagatcaat cagttgcaaa 60
acccatgtaa ttacagaccc atattacaga ctgaaaccta aaacctatgt aattacagac 120
ccatattagt attcaaccta gaaaacatat acacaggcaa aacccaaacc aatcccacta 180
aataattaca attctaaagt tgtaagtggc agtccaaatg taaaccaga agaaaacacc 240
taagaatggt tagcactacc ctttagctat ctccctactg gcctactctt cttttgccta 300
atggataaac agattccaac aacacacaga taccacccta cagctaatacc ttgttgacac 360
aatcggtggt acagtcaact gtaatttaat actacaggaa acctaaagag aacaatgttc 420
atgaatcacc accagcctca gcgaatggat gattatgttg tcgtacaaac t 471

<210> 5685
<211> 518
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073f09a1

<400> 5685

agagcgtgaa gatgacactg gcgctggtgc gagtggaggt gttgctattg cagcagcttc 60
ttcacaaacg caaacacaag agattgaaag tgctggcggc gacaggagga ggagatacag 120
gggagtgagg cagaggccgt gggggaaatg ggcggcagag attcgcgatc ctcacaaagc 180
ggcgagagtg tggcttggga cattcgacac tgccgaggct gcggccagag cctacgatga 240
agccgcattg aggttcagag gtaacagagc aaaacttaat ttccccgaaa acgttgtacc 300
ggttccacct ccttctccgg ttcccgattt accggcaagt gcggtagccg gttccgattc 360
catttccggt tccggttcag tgggtggcagg tttttcgccg acgtgatgc atggaggcgc 420
cgttcagggc tcctctgctt ttctgagaga ttattggggg tattctcagc tgctgaggag 480
tacaggggac ttccatggac tcaccagtgg ttctttga 518

<210> 5686
<211> 332
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073f09d1

<400> 5686

aggaaccaa attaaaaaat cttatccctt ggaaggaatg ggccccactt tcagtattgg 60
cccgcccttt aaaaagcttg atttgcaa atgaaaggggcc cggcaaaatg ctaatggggc 120
caaaacaatg ggcttggggc taaccgaaaa tgggatgcc cttttatcac tcccaatgaa 180
aagggcccca taccgccgga aactggtctt aacccccaat gaaccaggg gaatctggat 240
catcaattgg gtaaagctga attccaaatt taaaaccctc ataaaccctt tgattcccc 300
aaaaagaccc acaagggtta acaatgcccc tg 332

<210> 5687
<211> 544
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220073f10a1

<400> 5687

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taactttgtg agaccagata ccagcaaagg tggcagtatg gatccagggtg attatgtgaa 120
gggtcaaagt gtggcatctg gaagcccaag tgagagcacc cttgtcaaag gagtagtttg 180
cacaaaaaat attaagcaca agcgcgatgac ctctcaatac agaaagccta gactactcct 240
tttaggtgga gctctggaat atcagaaagt tccaaatcaa ttggcttctt ttgatacatt 300
gttacagcag gaaaatgatc atctgaagat gattatttcg aaaattgagg ctcttcgacc 360
aaatgttttg ctggtagaaa aaagtgtagc ttcattgtgcg caggaatatt tgctggcaaa 420
ggaaatcttc ttggtgttga aatgttaaag gcctttgctg gagcgtatag ctcggtgcac 480
tggcgctctt ggcactccat aagtggattg gttatctaaa gcacgattgg ngcactgtga 540
gttg 544

<210> 5688

<211> 426

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073f10d1

<400> 5688

agggaccaa attaaagaat cttatcccca ggaagaaagg ggccccctt tcagaatggg 60
cccggccttt aaaaagccag attagccaaa gaaaggggcc cggcaacatg ccaatggggc 120
ccaaacaagg ggcctggggc taaccgaaaa ggggttgcca cctttatcac tcccaaagaa 180
aaggggccca taccggggga aaccgggtcat aacccccag gaaccccggy gaaaccggct 240
taacaatggg cgaaagcgga attccaaatt taaaaccctc aaaaaccctt tgattcccc 300
aaaaagaccc acaggggtta acaatgcccc cggggctaac aggggtaaca tggtcgaaaa 360
gcccccaat tcaaggagcc cttggccaaa ccccttttgg gcatccccag gaacccctt 420
ttgggg 426

<210> 5689
 <211> 524
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220073f11a1

 <400> 5689

 gcgaagaaag agtgagttgc agttagagtc tccaatccaa tccatgtcgt tgctgctact 60
 ccctcaacct ccgacacccc tctcaacggg caccttctcc gccgccgcac gcgcaccctt 120
 cgccgccgtc acgcctccgc gcccgagaac gctaaatccg aaaccgcac tctccctctc 180
 tgccccaata acaacaacag cacccaataa tgcaatccct ccgaagaagg tcttggttcc 240
 catcggtatt ggcaccgaag aaatggaagc cgttatcatg attcacgtcc tgccgccgcg 300
 cggcgccgac gtcaccgttg cctccgtgga gccgcagctc caagtagaag ccgtcggagg 360
 caccaaactg gtcgccgata ccgacatctt cgcggtggtc gatcaagttt tcgatctcgc 420
 tgctttgccc tgacagggag ggatgcctgg ctctgctaga ctacgggatt gcgatgtgct 480
 gcggaaaatc acgtgcagac aagctgaggg aaacaggctc tatg 524

<210> 5690
 <211> 475
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220073f11d1

 <400> 5690

 caacaaaaat tcgacatgat tttttttttt ggaaagcatt ctgtgataca agatgatatt 60
 tggctaatta taattacatt atgacatatt gcgttttgga ctttttctta catcctatca 120
 ggggaagttt ggtttttata ttagaaagtt caatctattg ttaactagag tctacagtgt 180
 gttaactatg agaggatcca ttctctaaat gatgaaaatc atcaagttcc tgtctcagtc 240
 aatagcaatg gcattcccag gtcgacatcc cctccagaaa tcaaactcag aagattgatt 300
 gttaccatcc aagtgtgtga aacgaatgcc aaaaggggat atgaatcgat acagagctaa 360
 tcacatgagt tcaagttggt agattttgcc aagatattga attagaagac tgcaacttat 420
 cttttccgaa gtgattggag gcaaaataaa tcataatgat aatatggagc tgctg 475

<210> 5691
 <211> 503
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073f12a1

<400> 5691

tgaacacatt gttgctggtg catgagagct tcatcttgag atctgtttga aggacttgca 60
 ggatgatttc atgggtggag ctgagattat caaatctgac cctgttgtgt cattcagga 120
 gactgttttg gagagatcat gccgcaccgt gatgagcaaa tcaccaaca agcacaaccg 180
 tctgtacatg gaagcaagac cattggagga aggtcttgct gaggccattg atgatggcaa 240
 gattggacca agggatgacc ccaaggttcg ttccaagatc ttgtctgaag agttcggttg 300
 ggacaaggat cttgccaaga aaatctggtg ctttggccct gagacccttg gaccaacat 360
 ggtggttgat atgtgcaagg gagtccagta tttgaatgaa atcaaggatt ctgtggttgc 420
 tggattccag tgggcattaa aagaagggtgc tttggctgaa gataacatga gagccatctg 480
 cttttgagta tgtgatgttg tgc 503

<210> 5692
 <211> 543
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073f12d1

<400> 5692

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 aatcctatta gagcaaaaat acatcgatgc aaggaccaa taacagcatt acaacattca 120
 cgggcaaaac cacaacaaa actaacagaa attaaatcta aagtagcatt gttcacaaga 180
 gaaaataaat tcgactaagt tcaaagtaaa ataattcatg aaacaaattt aaagcttgct 240
 ttcaaactcg gagagaggag tcatctgttc cttcaagccc ttcctcttgc gaatgtcagt 300
 gacaagctgt gcagcttggtg atccagcctc caatgggtca gaagacatca tgtcccagtg 360
 atcaaacaca cattgtggga aggcctggcc tgatgttgca gccctcaatg tgctcgagaa 420
 accaaaggac tcgatgacag ggaggtatgc cttgatgttg tatagtgggg tacctggcct 480
 ctgcatttcc tcgaacacgt gtccacgctt ctggttaaga aactgtaga ttccaccaag 540

agc

543

<210> 5693
<211> 534
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073g01a1

<400> 5693

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acctctgcag agaagttaac atataggagt gagaggagg gagagagaag gaaagcttgg 120
tagcgatggg gaaggagcaa gttcaggtgc tgaatgccct ggacgtggca aagacacaat 180
ggatatcattt cacagcaatc atcattgctg gaatgggctt cttcactgat gcttatgatc 240
tgttctgtat atcactagtc acaaagctac ttggtcgcat ttactaccac gttgatgggg 300
ctgcaaagcc tggttcattg cctcccaatg tgtcagctgc agctaattgg gtagcttatg 360
ctggaacact ttcagggcaa ctcttctttg gctggctcgg cgacaaaatg ggccgaaaaa 420
aggtctatgg catgaccctt gcgcttatgg gtatagcctt cattgcttct ggtctatcct 480
tcggacacga tgccaagact gtgatgacac ctttatgcta ctttcgcttc tggc 534

<210> 5694
<211> 592
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220073g01d1

<400> 5694

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tcaggtccct atcattacaa caagatagag cagaaccaa tagaaaaaga aataatcaaa 120
cgggaaagga aagctttggc aacaattccc tagccgaatt aaggcacggc tttattctag 180
taacagatca ctaataaact agagaaagac actgaattat tctggtgcca ttatttttac 240
accttgggtct cctcttcttg ctctcccgaa atctcctcca aggatctacc cttggcctca 300
ggcaccaaga aagtgaacat gaagcctaaa atgttaatca cacccaacac aagcagtga 360

ttcctcacac caatacctgc aggggtaccct gcattctgctt tgctcgggtc ctgattctgt 420
gccaaatata aaaacccgaa tgcaccaacc atagccccga gctttccaga tgctgaagat 480
attccatggc aagtggatct aaatctagct gggaaaatct ccgtccgcac aacatatgtg 540
gtggcattag gcccaaagtt ngcaaagaag aatgtgagag agtaaagac ca 592

<210> 5695
<211> 532
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073g02a1
<400> 5695

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aacaggcaaa ctaacataga ctccagaaat cataccttcc aggaatatata caagaaccat 120
gacctgtaaa aattataata caataaatat cagttatatt aaaatgctaa gtaattataa 180
atagaaaatt acttagcatt ttaatataac tgatatttat tgtattataa tgctaagtaa 240
ttttaaatag aaaattcatt atgcaagacc tattttaatg tataacaaat ctgagccaat 300
agaaaatgga caagaaagaa aaaagctgca aaatttgaag agattttttc atactgacta 360
attaattatg tcaaaaggat gctaaggaaa tgaaattcaa aaagtgttca tgtaacattt 420
caaaatacat taatataatc atccataatt ttaacaaata tacttctgaa acaaactgat 480
aagccagatt tgaataccac taatctcata cttaacgtca caggatcatt tt 532

<210> 5696
<211> 508
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073g02d1
<400> 5696

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tatactcat ttttcttgta aataactcaa taccactaag tctcccggtg taaaaatgaa 120
agtccttcat tcataggctc cttttttttc aacagatgct tttattggtg tcaacattgg 180
ttcagatata tctgacatgc ccggtccaac agagattggt gctcttctga aggctcaaag 240

tatccaacat gtcagactct atgatgctga ccaagcctta cttcttgacac ttgccaacac 300
 aggaattcgt gtaactgttt ctgttcccaa tgaccagcta cttggcattg gtcagtccaa 360
 tgccactgca gcaaactggg ttactcgaaa tgtcatagct catgtccctg ctaccaacat 420
 cactgccata tgtgttggat ctgaggctct aactaccctc ccaaatgcag cccctattct 480
 agtctctgcc ataaatttca ttcactct 508

<210> 5697
 <211> 554
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073g03a1
 <400> 5697

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 taacctctc ctttctctc cgccagatct catctcgcc gccgccgccg ccgccgccgc 120
 tgccgccgaa tttctctcg tegtgtgtc tccacctctc actctcgctg aagcttatta 180
 aggaccgaca gcatgtgccg gcaaaattct ccggtacacc atgccggtga agaagaaatt 240
 gcagctgatg agagtctttt aatttattgc aagcctgttg aactgtacaa tattctctac 300
 cgccgcgctc ttcaaaatcc ttcttttctt aggagatgtt tgctttataa aataagagca 360
 aggcgtaaaa ggaagttgag agcaggaatt gtgattttca attataggga tctactaac 420
 attcttcgga aaactgaagt gaccgaagac tttcttgctc cgttttgctt gatgcagtgt 480
 ggcagcttta ggttactgga gattaccaag cagtgaatgt ctccgtgaaa attaatatat 540
 tgagatcaga gaat 554

<210> 5698
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073g03d1
 <400> 5698

aacaaacaca cgatcttggt catattaaat tattcttgga caacaggatg ctacgataaa 60
 tccacaagtg aaactagtaa taatcacaaa ctttccctgg tatttccgag ggttccttat 120

tgatcactct taattcacta gtcaccgcat cagcatgatt tatccctcca agggaacact	180
gtgaagaaca acggtctcaa cgggttagacc cggcccgaat ccgaatagca cccccactc	240
taacccttct ccagtggtag tcttcccttc ctccttagac ttattcctca ttttatccag	300
aatgaacaaa acacacgcgc ttgacatggt ttcgaactca ctcagtacat gccgggtgga	360
ctggagtttc ttcggcttga gccggagctt ctcctagact tgatcgatga tcgctggacc	420
accgg	425

<210> 5699
 <211> 603
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073g04a1

<400> 5699

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actcatgaaa atgaacctca acaagaaagt tctggatcgg aacttgagaa ggtttctgat	120
caggcaaaat ctacagcaga aacaaatggc agtaagcttt cagctgcggc caaacctttc	180
aatccaggaa tgttgtccat gtctcaccat ttaaattcag cttccttcac aagcatgtat	240
gatacagatg ttagtcaagg catgcacgtg gagactgtgc ttccccctgc tgttgctagg	300
gtcccttggtg ggcctagatc gcctctgtat tatagaacca actatacttt tcgcatgaaa	360
catggttcta ctaaagggtca aacctctatc agagaaagaa gtggatttgg gtctccaaga	420
ataatgaatc cacatgcgcc tgagtttggt cccagaaatg cttttcaaag agaagccaat	480
gatgccatt caaatgtttc caatgagcat aactctttgt ctgacatagg catgtcagaa	540
gaaacaagct agatgaaaat ttgtgaaatc aatggagtgc cacaaaacag tatttctgat	600
ctg	603

<210> 5700
 <211> 426
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073g04d1

<400> 5700

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 aaaacttact atataataga gaataaaca atcccgaatg ccctaattgt atcggcaaaa 120
 accaaagtga attgaatgac caaaaatttt aggccttgaa gttataaact attaacaatc 180
 tgacgtccaa agcttcggcc agacaaacac tcaaatgtag agacaatttc cgttatttat 240
 ttcataactc tattcaacga actgaagcac aaagggactg gtggttgccc aattctggga 300
 ctccatttgg gaacttttgc ctgtctttcc ccttttggga gacaactata aacccttgac 360
 catctccatt ctttttttca ggaacaccta attttttttg gctataacta tcacctgaaa 420
 tgaggc 426

<210> 5701
 <211> 521
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073g05a1
 <400> 5701

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 acaggctcaa gctaataagg cggatgcttc aagtggcgat accaattcct ttcattgatga 120
 ccagagtact ttacatgttg gtccccctgat tcagaaaagt actgaagtgg agtcagttgc 180
 agattatgaa aaacagttat cttatgaatg tgttgaaaca tttgttaaac caaataagaa 240
 gaagaatggg gctacatatg atcagggatg gcagttggat tctgttgctc taaatgaaca 300
 gaaggatcag tccaagaaga gagcggatag tcatcacttt gaatctaattg gaagtttgtg 360
 tgggcaacct aatgctaaga agccaaagat aataaggcag tcacttgata atactttcga 420
 caacattgct cctatgacta actctattcc ttccccctgct gcgtcacaaa tgagtaacat 480
 gtcaaactct aataatttat taagatcatt agtgggagcag a 521

<210> 5702
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073g05d1
 <400> 5702

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gtacttcacc aaacacaaat ctaaaaactc tcaaaagtca tttcgggtctt tgacgctcac 120
tttccgggga cgaagttggg ggcataaggcc caggcggttg tgttgacagg gtcagcatgg 180
tgatcgggtga ggctctccaa tggacccttt ccggagacaa tggcctgaac aaagaagcca 240
aacatagaga acatggccaa tegtctgttc ttgagttcct tcaccttaag ctcagcaaaa 300
gcctctgggt catcagcaag gcccaatggg tcgaagctgc cacctgggta gattgggtca 360
gtgacctcac cgaggggggc accagcaata cggtaacctt caacggcacc cattaggata 420
acttgtgtgg cccaaatggc gaggatgctc 450

<210> 5703
<211> 532
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220073g06a1

<400> 5703

caaaaaaaga ttatgaaatt ttctctccaa tgaaagtcac gatcctctcg tccatattca 60
ttctctatct ctctcttcac ctctgtgtt tttttctctc tcttctctc tccctttttt 120
caatctttca atcaccaatt ctaatcactc gtagatcctc tctgtttctc attctggatt 180
aatttgcat ggcaaatctc tacattatgg atgaaatggc ggattcagaa atggatcaac 240
agatagaaga ttatcaacat tctgaaccgc atatcctttc gagaggaacc actagcatct 300
cgcagcctaa taataaccat gcaatgggtg gagaatctga gaacacaact aatgctgatt 360
ctcactttct gccagatgct tatgacaatg ctagggtgta tggggttcca caatataatg 420
gtattcagcc tccacataat cttgatacgg gtgtaccagt tgcaactaac ttatattatt 480
ctagcattaa tctccttcc agtacctgtg cttntcatcc gccttaaagt ca 532

<210> 5704
<211> 448
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220073g06d1

<400> 5704

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 tagtatgacg tctatatatg tgcaagtaca tgtacaaaat tcataagaat tctgttcata 120
 aataaatcag gtaggaggag acacagaagt tgatttcaaa gcttgagatt tgcataatggg 180
 gcaaacattt ttaccacca accatgttct taagcaatct gcatgatatt catgctcaca 240
 ttgaagaact ccaatcttct cttggctctt gaattcatcc tgacatatta tacaagaaaa 300
 tgtgccctga tcatgacaaa cttgctactc catattaata ctagtagcac ccgttaaata 360
 agtccttggc ttcaattgag ttgtaattgt ttgctacgat aaccagtgtt tacattgcca 420
 attctctcac cctaagcaat gagatcct 448

<210> 5705
 <211> 565
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220073g07a1
 <400> 5705

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 ctgcggcgga gtgtggcggt ggatgctcag gagaactcgg acgtgaagac gctggtgaag 120
 tacaagcacg ggaagaagta ctgcgacata ggatgggaat gtaagggctg gtcaatttac 180
 tgttgtaacc tcaccattac cgattatttc cagacctacc agttcgagaa tctgttctcc 240
 aagcggaact cgccggtggc gcacgcggtc ggattttggg actaccactc cttcatcgcc 300
 gccgacgcgc tttttgagcc ggaagggttc ggcaccaccg ggaacaagac gatgcagatg 360
 atggagatcg tcggcttctt cggacacgct ggcagcaaga cctcttgagg ttatggagtg 420
 gccactggag gacctttggc ctgggggtct tgctacaatc atgaaatgag tcctatgcag 480
 tcatactgtg atgactactt caaactcaca tagccctgta cttctggtgc tgactactat 540
 ggacgctgag ccattccatt ttttg 565

<210> 5706
 <211> 292
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220073g07d1

<400> 5706

gggtatggtg tggtttgttt tttgacttta ttttgtcttt aaagagtcaa aatacagggt 60
atgcagcggc aaccgggggg gagaaaaaaa aaaaagaaga ccacaaaggc gccgtgaaga 120
gagacacacc aaaaacaaat cagaaaaaag aaagaaaagg agaaaacgaa caagccgcca 180
caagaaaaaa aaaaaggggg aaaaagaaga gccaccaga caccagagc aaaaggagg 240
gcaacccgaa aaaacaaaaa ccccaggga aacaccatca cgaggggggg gg 292

<210> 5707

<211> 407

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073g08a1

<400> 5707

cccaccagc atatctctct atttctattt attagcacc ctcacattac cttgtgtcac 60
caagtacttt gactccttta ccataccatt acaataatta tcaaacctaa ccagtaaaaa 120
tggtgaccgt ggaggaaatc cgcaacgctc agcgttccca tggaccgcc accatcttgg 180
ccttctgcac cgtcacgccg tccaactgcg tctcccaagc cgattaccct gactactact 240
tccgcattac caacagcgaa cacatgactg atctcaaaga aaagttcaag cgcattgtgtg 300
aaaagtccat gataaagaag cgatacatgc acctgacgga ggagtttctg aaagagaacc 360
cgaacatgtg cgagtacatg gcgccatcgc tggacgtgag acaagac 407

<210> 5708

<211> 512

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073g08d1

<400> 5708

agtgacatct tttgcactaa acaattgtta tttttaacaa atatccaaat cattgaaaaa 60
acaaatattt atgcaaattc ccaaaattcg tattacagtt gctacaaata aaagaagtat 120
aatcatcacc attgaagttt actccaacaa acccaacgta atactggcaa gtattgttgc 180
tcgtctaaca aagcatgcaa tgggcgacca ataaattgca tataactaagt gtacagtttt 240

gcaattcttt ttacacacgg ctatctatga ggctgctaaa ctccaatctc agtaacaaaa 300
 agaaaggccg agttgagcca acatttcttg acaaagtgca ctagccggta gccacaatct 360
 catggatggg atcgctaaca gtttcatact cggatctgac agcaagtttc atcgcaacat 420
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 cacctgacaa caagcatgtg tgtgaccttt ga 512

<210> 5709
 <211> 415
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220073g09d1

<400> 5709

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 tggatttgct acttggatct gtgaagcatt catacagaaa ttacatgcta cataaaccac 180
 atgggtctaaa cggccacctg agcctatgct gagattatta taccctgtgc gaatgatcaa 240
 gttcacacca tcaatagata aaccaactcc tcttagttca gggtcacgtg acaaccacac 300
 tgaagcatct gttcaaatta aatggctgga tggatatata gcagatacag gcgagaccat 360
 gggatgtaat ccacacacat tttgaccttt gcagatcttg aaaaatccat tcttt 415

<210> 5710
 <211> 432
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220073g10a1

<400> 5710

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 caagcattcc aatcgctccc aaaatctttt ctaatctgat cataactgag tagttctaata 120
 catgggctcc ttgattgggc cacgtgatca tgatcacaga ctaccgcttg tttagcttcc 180
 ctgtgtatca accagacacc taattcaccg aggagacata cctaggctct ttgccattca 240
 tgggtgttgat gctaccataa gtaccaccac aggcactgcc gacattctcc aaagctctat 300

cgatcgcgac cgtgaccgcg gtcactctat cagaaccac gttgtcaagt tcccatgtga 360
 acaagttggg ttgccagaac gactacagag cgttcacttc aacactacta aggatttggg 420
 ccacaaaatc ta 432

<210> 5711
 <211> 323
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073g10d1

<400> 5711

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 agaaagaagt ggccagttgc aaaatattgt agattattgg gtcacactac tatgatttaa 120
 ccaaaaacat acaaacactt ataattctgt tatgtcataa gtcggacaat tactaggtaa 180
 caatactatt gtatttaaca ctattttgga atgaggcatg taacttattt acaatcacag 240
 aggtttgagc tgaattgatt gctattattc ccaagagttg gtctaacttt tgaggatggc 300
 cttctcgcag atgagtgact tta 323

<210> 5712
 <211> 339
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073g11a1

<400> 5712

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 tttcttctct tttccccct cctgattctt cattttacct ctatttcaca ctccaatttt 120
 ctctcctta tcatatttta tcaattctct gatgtcacc aaaaccattc ttctgtcttc 180
 tgtattcaag ttccctggaa ttctcaatcc gggggcgtgt tcgtttctac acatgtttgg 240
 atgaaaagac gcaccaggac cctatgtgtc ggtgttctac gagaccgatg actgtttatg 300
 gctgaaagct gctgactcgc atactgcatt ttgctgacc 339

<210> 5713
 <211> 393

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220073g11d1

<400> 5713

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tccaaagcaa tgaaaaaaaa agagactttt tctaggtaaa ggagaaaaac tagaaggagg 120
gaacccaaag cagccacaat tataatgcaa agaggaaaga aggatgttac aaacactgga 180
ccaaagaaat gcattcccaa cccttgttta aaaaagctat ttcagaactc aatattccag 240
agaatgagga ccataaaggc tgaaatataa accgatagcc catgctcgag ggggaggatc 300
tgcaattaga gcaaccacag aactttgcaa aggggccgct cagcatatca aggatgagag 360
tgatagtccc gcggggaacc ttctcaccga aat 393

<210> 5714
<211> 531
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220073g12a1

<400> 5714

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gcaagtcgcc gccatcctcg gcgcggatcc ctcccccttc gagacgttga tctcgcacct 180
catgtcctcc tccaacgagc aacgctccca cgcgagggcc ctgtttaacc tctgcaagca 240
aaccgatccc gatagcctct ccttgaagct cgcgcacctc ctccactcct cgccgcacga 300
ggaggcgcggt gccatgtccg ccatacctct ccggaacag ctcacgcgcg acgactccta 360
cctctggccg cgctctctcc ctcacacgca gtcttccctc aaatcgctcc ttctctcttc 420
gattcaaaag gagaacatca aatccatctc caagaagctc tgcgacacca tctccgaact 480
cgctnccggt attttaccg acaacgcctg gccggagctt ctctctttca t 531

<210> 5715
<211> 498
<212> DNA